

Transmission Solutions Specialists

2015 Product Catalog Industrial Ethernet & Networking Products

- EtherKira[™] Ethernet Extension
 Media Converters
- Network Switches
- PoE Switches
- PoE Switches





About OT Systems

OT Systems is a global leading company in security, surveillance and communication application. Founded in early 2000s by a team of internationally experienced security industry professionals, the team commits to offer high-quality and value-based transmission devices, world-class support, technical consulting and pre- and after-sales service.

With the team's extensive experience and expertise in the industry, OT Systems' comprehensive range of products are specially designed for security, surveillance and industrial automation applications. No matter it is Network Switches, POE, POC, Media Converters, Ethernet Extensions, HD-SDI, Audio, Video and Data Transmission products, the company's in-house research and development team focuses on innovative and reliable products designed to meet the changing demands of the market.

Industrial Ethernet & Networking Products

Whether you are starting up a new network or migrating from older analog or serial technologies to IP, OT Systems have Ethernet transmission products that fit your applications.

Our ET-Series / EC-Series Ethernet and Networking products are right fit solutions for expanding and optimizing network performance in various media, while offering the best price-to-performance ratio and suit various types of Ethernet applications requiring industrial grade products.

Filerkira ** Ethernet Extension

- Media Converters
- Network Switches
- PoE Switches



Contents

EtherNir^{2™} Ethernet Extension

Ethernet over Coax

EoC with Power

8	ET1100UPp	Industrial 10/100Base-TX Ethernet over UTP Extender with PoE+ & PoW
	EoUTP with Power	·
	Ethernet over UTP	
16	et1100C	Industrial Microtype 10/100Base-TX Ethernet Over Coax Converters
4	ET1100C2	Industrial 10/100Base-TX Ethernet plus CVBS Over Coax Converters
	EoC	
12	ET4200CPp-RS16	Receiver of 16-port Coax to 4-port 10/100/1000Base-TX Ethernet Switch with PoC
10	ET4200CPp-RS8	Receiver of 8-port Coax to 4-port 10/100/1000Base-TX Ethernet Switch with PoC
8	et1200CPp-RS4	Receiver of 4-port Coax to 1-port 10/100/1000Base-TX Ethernet Switch with PoC
6	ET1100CPp	Industrial 10/100Base-TX Ethernet Over Coax Converter with PoE+ & PoC
4	ET1100CP	Industrial Microtype 10/100Base-TX Ethernet Over Coax Converters with PoE & PoC

EoUTP

20 ET1100U Industrial 10/100Base-TX Ethernet over UTP Extender

Media Converters

Fast Ethernet Media Converters

22	ET1111	Industrial Microtype 10/100Base-TX to 100Base-FX Ethernet Media Converter
24	ET1111H	Hardened Microtype 100Base-TX to 100Base-FX SFP Ethernet Media Converter
26	EC1111	Econ-line 10/100Base-TX to 100Base-FX Ethernet Media Converter

26 EC1111

Gigabit Media Converters

28 ET1212H Hardened Microtype 1000Base-TX to 1000Base-FX SFP Ethernet Media Converter 30 EC1212 Econ-line 10/100/1000Base-TX to 1000Base-X Ethernet Media Converter

PoE Media Converters

32 ET1111P Industrial 10/100Base-TX to 100Base-FX Ethernet Media Converter with PoE 34 ET1111PpH Hardened 100Base-TX to 100Base-FX SFP Ethernet Media Converter with PoE+ 36 ET1212PpH Hardened 1000Base-TX to 1000Base-FX SFP Ethernet Media Converter with PoE+

Multi-port Media Converters

38	ET8181	Industrial Rack-mount 8/16-port 10/100Base-TX to 8/16-port 100Base-FX SFF	Ethernet
	ET161161	Media Converter	

Network Switches

Unmanaged Switches

40	ET2111	Industrial Unmanaged 2-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch	
42	ET2281H	Hardened Unmanaged 8-port 100Base-FX SFP + 2-port 10/100/1000Base-T/SFP Combo Optical Ethernet Switch	
44	ET22161	Unmanaged 16-port 100Base-FX SFP + 2-port 10/100/1000Base-T Optical Ethernet Switch	
46	ET22241	Unmanaged 24-port 100Base-FX SFP + 2-port 10/100/1000Base-T/SFP Combo Optical Ethernet Switch	
48	EC8200	Econ-line Unmanaged 8-port 10/100/1000Base-T Ethernet Switch	

Managed Switches

50	ET8242M	Industrial Managed 8-port 10/100/1000Base-T/SFP Combo + 4-port 1000Base-FX SFP	
		Ethernet Switch	
52	ET16122M	Managed 16-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch	
54	ET24122M	Managed 24-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch	

PoE Switches

Unmanaged Network Switches

56	ET4111Pp	Industrial Unmanaged 4-port 10/100Base-TX + 1-port 100Base-FX SFP Ethernet Switch with PoE+
58	ET8122PpH	Hardened Unmanaged 8-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
60	ET16122Pp	Unmanaged 16-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
62	ET24122Pp	Unmanaged 24-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
64	EC9100P	Econ-line Unmanaged 8-port 10/100Base-TX (PoE) + 1-port 1000Base-T Ethernet Switch
66	EC5100P	Econ-line Unmanaged 4-port 10/100Base-TX (PoE) + 1-port 100Base-TX Ethernet Switch

IP CCTV Self-Configured Switch

68 ET4222PpH Hardened IP CCTV Self-Configured 4-port 10/100/1000Base-T + 2-port 1000Base-FX SFP Ethernet Switch with PoE+

Managed Network Switches

70	ET8122MPp	Industrial Managed 8-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
72	ET16122MPp	Managed16-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
74	ET24122MPp	Managed 24-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+

Accessories

PoE Injector & Splitter

76ET-INJ30Hardened Gigabit 1-port Ethernet Input + 1-port PoE+ Output Injector78ET-SPT12VHardened Gigabit 1-port PoE+ In + 1-port Ethernet Data Out PoE Splitter

Racks & Chassis

- 80 MR-C10 19" Rack for Micro-type Products
- 81 ET-C12 12-slot 19" Rack Mount Chassis for ET Series
- 82 EC-C14 19" Rack Mount Chassis for EC1111 and EC1212 series units, 2U, 14 empty slots, with PSU, 110-220VAC input

SFP Modules

83 SFP Modules

ET1100CP Series

Industrial Microtype 10/100Base-TX Ethernet Over Coax Converters with PoE & PoC





Features

General

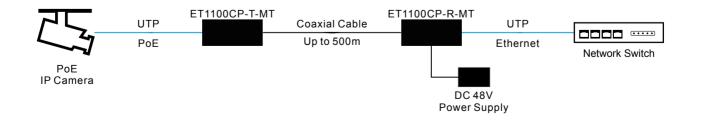
- Ethernet Extension: Security Link over Coax
- ▶ Support PoE (15.4W) and Power over Coax
- Constant Data Rate: 36Mbps/21Mbps(Downlink), 11Mbps/3Mbps(Uplink)
- Maximum distance: 500m over Coax (RG-59/U)
- ▶ Dip Switch for selecting distance 500m/300m
- Support Auto MDI/MDI-X function
- Microtype fits within most camera housing
- ► -10°C to 60°C (14°F to 140°F) operating temperature
- Accept 48VDC external power input or PoE power input from RJ45 port
- ► Built-in Surge Protection

Warranty

► 5-Year Warranty

Ordering Information

Model	Description
ET1100CP-T-MT ET1100CP-R-MT	Transmitter of 10/100Base-TX Ethernet Over Coaxial with PoE & PoC Receiver of 10/100Base-TX Ethernet Over Coaxial with PoE & PoC
Power Options	 GS60A48 60W/1.25A 48VDC Power Supply. Open wire for Terminal Block. Power Supply is to be purchased separately.





Ethernet

Connector:	1 x R J 45
Maximum Distance:	Cat5UTPupto100m
	100Base-TX: Cat5 or above
Cabling:	10Base-T:Cat3,4,5 or above
	IEEE802.3afPoweroverEthernet
	IEEE802.3u 100BASE-TX
Standards:	IEEE802.310BASE-T

Coaxial

Cabling:	Coaxial cable (75 ohm)		
Connector:	1 BNC (female)		
Distance:	Up to 300/500m on RG-59/U (Switch		
	selectable)		
DataRate:	<300m	<500m	
Downlink (TX to RX)	36Mbps	21Mbps	
	(Constant)	(Constant)	
Uplink (RX to TX)	11Mbps	3Mbps	
	(Constant)	(Constant)	
Technology:	SLOC (Security Lin	ikoverCoax)	

Environmental

Relative Humidity:	0% to 80% non-condensing
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Operating Temperature:	-10°C to 60°C (14°F to 140°F)

Electrical and Mechanical

InputPower:	48-57VDC (2 pin connector) or PoE
Power Consumption:	3W (TX/RX) w/o PoE
	24W (TX/RX) when PoC in use
LED Indicators:	
Power:	PowerStatus
CoaxLink:	CoaxConnected
Act:	Data is being transferred in Coax
PoC:	PoweroverCoaxinuse
PoE:	
Standard:	IEEE 802.3af
Port:	RJ45 (PD at Rx, PSE at Tx)
Mode:	Alternative B mode
	Positive (VCC+): RJ45 Pin 4, 5
	Negative (VCC-):RJ45 Pin7,8
Max.PowerPerPort:	12.95W(input) at Rx (Powered Device)
	15.4W (output) at Tx (Power
	Sourcing Equipment)
Dimensions (WxDxH):	33x117x24.5mm
Weight:	300g
Casing:	Aluminum case

Regulatory Approvals

ISO9001 FCC Part 15 Class A EN55022 Class A EN61000-4-5 (Surge Standards) RJ45: 1kV Coax: 2kV Power: 500V





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ET1100CPp Series Industrial 10/100Base-TX Ethernet Over Coax Converter with PoE+ & PoC







Features

General

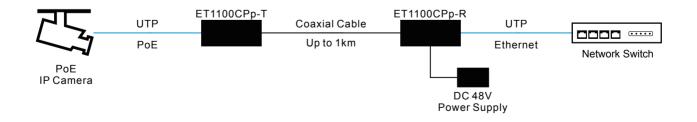
- ▶ PoE+ (30W) and Power over Coaxial
- ▶ 802.3af/802.3at Compliant
- Data Rate up to: 90Mbps (Downlink), 90Mbps (Uplink)
- Max. Distance: 1Km over Coax (RG-59/U)
- Compatible with 4-port standalone Receiver & Rack Mount 8/16-port Receiver
- Accept 48VDC external power input or PoE power input from RJ45 port

Warranty

► 5-Year Warranty

Ordering Information

Model	Description
ET1100CPp-T ET1100CPp-R	Transmitter of 10/100Base-TX Ethernet Over Coaxial with PoE+ & PoC Receiver of 10/100Base-TX Ethernet Over Coaxial with PoE+ & PoC
Power Options	 GS60A48 60W/1.25A 48VDC Power Supply. Open wire for Terminal Block. Power Supply is to be purchased separately.



Ethernet

Standards:	IEEE802.310BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3afPoweroverEthernet
	IEEE802.3at Power over Ethernet
Cabling:	Cat5orabove
Maximum Distance:	100m
Connector	1xRJ45

Coaxial

Technology:	PowerLineCommunication(PLC)
Uplink:	90Mbps (max.)
Downlink:	90Mbps (max.)
DataRate:	
Distance:	Upto1KmonRG-59/U
Connector:	1 BNC (female)
Cabling:	Coaxial Cable (75 ohm)

Environmental

Storage Temperature: Relative Humidity:

Operating Temperature: -10°C to 60°C (14°F to 140°F) -40°C to 85°C (-40°F to 185°F) 5% to 95% non-condensing

Electrical and Mechanical

Input Power:	48V~57VDC (Terminal Block) or
	IEEE802.3atPD
Power Consumption:	8W Max. (PoC not in use)
	60W Max. (POC in use)
Protection:	
Reverse Polarity:	Present
PoE:	
Standard:	IEEE802.3at
Mode:	В
Port:	RJ45
Max.Powerperport:	25.5W max. at RX (Powered Device)
	30W max. at TX (Power Souring
	Equipment)
LED Indicators:	
Power:	PowerStatus
Ethernet:	SPD, LINK/ACT, PoE(Transmitter)
CoaxData:	LINK(Transmitter)/READY(Receiver)
	PoC(Receiver)
Dimensions (WxDxH):	114x82x31mm
Weight:	250g
Casing:	Aluminum case
Mounting Option:	WallMounting

Regulatory Approvals

ISO9001 FCC Part 15 Class A EN55022 Class A EN61000-4-5 (Surge Standards) RJ45:1kV Coax:2kV Power: 500V





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ET1200CPp-RS4 Series

Receiver of 4-port Coax to 1-port 10/100/1000Base-TX Ethernet Switch with PoC





Features

General

- ► Connecting up to 4 x ET1100CPp-T and IP Cameras
- ▶ 1000Mbps Full-duplex communication
- Power over Coaxial
- Data Rate per port up to:
 40Mbps (Downlink), 10Mbps (Uplink)
- ► Max. Distance: 800m over Coax (RG59/U)
- Auto MDI/MDI-X for reliable detection and correction for straight-though and crossover cables
- External 48VDC power input
- Wall mount installation

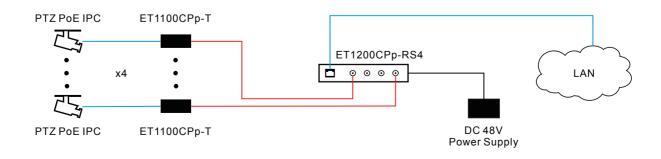
Warranty

► 5-Year Warranty

Ordering Information

60000

Model	Description
ET1200CPp-RS4	Receiver of 4-port Coax to 1-port 10/100/1000Mbps Ethernet with PoC
Power Options	 G\$120A48 120W/2.5A 48VDC Power Supply. Open wire for Terminal Block. G\$220A48 220W/4.6A 48VDC Power Supply. Open wire for Terminal Block. Power Supply is to be purchased separately.



Ethernet

Connector	1xRJ45
Maximum Distance:	100m
Cabling:	Cat5orabove
	IEEE802.3ab1000BASE-T
	IEEE802.3u 100BASE-TX
Standards:	IEEE802.310BASE-T

Coaxial

Cabling:	Coaxial Cable (75 ohm)
Connector:	4BNC (female)
Distance:	800m
Data Rate per port:	40MbpsMax.(Downlink),
	10MbpsMax.(Uplink)
Technology:	PowerLineCommunication(PLC)

Environmental

Operating Temperature:	-10°C to 60°C (14°F to 140°F)
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 90% non-condensing

Electrical and Mechanical

Input Power:	48~57VDC (Terminal Block)
Power Consumption:	10W Max.w/oPoC
	250W Max. w/PoC
Protection:	
Reverse Polarity:	Present
Overload Protection:	Present
Dimensions (WxDxH):	156x120x31mm
Weight:	500g
Casing:	Aluminum case
Mounting Option:	WallMounting

Regulatory Approvals

ISO9001 CEEN55022 Class A, FCC part 15 Class A Surge Protection: RJ45: 1kV Coax: 2kV Power: 500V



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ET4200CPp-RS8 Series

Receiver of 8-port Coax to 4-port 10/100/1000Base-TX Ethernet Switch with PoC

Ethernet Extension





Features

General

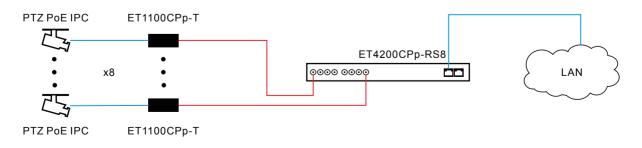
- Connecting up to 8 x ET1100CPp-T and IP Cameras
- ► With full switching capability
- ▶ 1000Mbps Full-duplex communication
- Power over Coaxial (Max. 400w total output)
- Data Rate per port up to:
 40Mbps (Downlink), 10Mbps (Uplink)
- ► Max. Distance: 800m over Coax (RG59/U)
- Auto MDI/MDI-X
- AC power input
- ▶ 19" 1U Rack-mount

Warranty

► 5-Year Warranty

Ordering Information

Description
Receiver of 8-port Coax to 4-port 10/100/1000Base-TX Ethernet Switch with PoC
■ 19" 1U Rack Mount.
■ 100~240VAC input.
F



Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3ab 1000BASE-T
Cabling:	Cat5orabove
Maximum Distance:	100m
Connector:	4xRJ45

Coaxial

Technology:	PowerLineCommunication(PLC)
	10MbpsMax.(Uplink)
Data Rate per port:	40MbpsMax.(Downlink),
Distance:	800m
Connector:	8 BNC (female)
Cabling:	Coaxial Cable (75 ohm)
	Convial Cable (75 abm)

Environmental

Operating Temperature:	0°C to 50°C (14°F to 122°F)
StorageTemperature:	-20°C to 75°C (-4°F to 167°F)
Relative Humidity:	5% to 90% non-condensing

Electrical and Mechanical

InputPower:	100-240VAC Input
PowerConsumption:	16W Max. without PoC
	500W Max. with PoC
Dimensions (WxDxH):	483 x 300 x 44mm (1RU)
Weight:	4Kg
Casing:	Aluminum case
Mounting Option:	RackMount

Regulatory Approvals

ISO9001 EN55022 Class A, FCC part 15 Class A Surge Protection: RJ45: 1kV Coax: 2kV Power: 500V







ET4200CPp-RS16 Series

63/63 600

Receiver of 16-port Coax to 4-port 10/100/1000Base-TX Ethernet Switch with PoC





Features

General

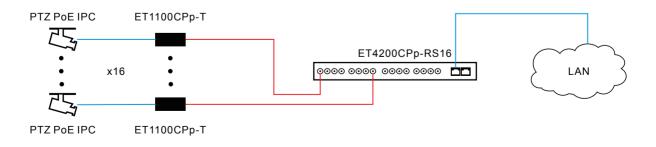
- Connecting up to 16 x ET1100CPp-T and IP Cameras
- ► With full switching capability
- 1000Mbps Full-duplex communication
- Power over Coaxial (Max. 800w total output)
- Data Rate per port up to:
 40Mbps (Downlink), 10Mbps (Uplink)
- ► Max. Distance: 800m over Coax (RG59/U)
- ► Auto MDI/MDI-X
- AC power input
- ▶ 19" 1U Rack-mount

Warranty

► 5-Year Warranty

Ordering Information

Model	Description
ET4200CPp-RS16 ET4200CPp-RS16P	Receiver of 16-port Coax to 4-port 10/100/1000Base-TX Ethernet Switch with PoC Receiver of 16-port Coax to 4-port 10/100/1000Base-TX Ethernet Switch with High Power PoC
Mounting Options Power Options	 19" 1U Rack Mount. 100-240VAC input.



Ethernet

Connector:	4×RJ45
Maximum Distance:	100m
Cabling:	Cat5orabove
	IEEE802.3ab 1000BASE-T
	IEEE802.3u 100BASE-TX
Standards:	IEEE802.310BASE-T

Coaxial

Technology:	PowerLineCommunication(PLC)
	10MbpsMax.(Uplink)
Data Rate per port:	40MbpsMax.(Downlink),
Distance:	800m
Connector:	16BNC (female)
Cabling:	Coaxial Cable (75 ohm)

Environmental

Operating Temperature:	0°C to 50°C (14°F to 122°F)
StorageTemperature:	-20°C to 75°C (-4°F to 167°F)
Relative Humidity:	5% to 90% non-condensing

Electrical and Mechanical

Protection:	
Overload Protection:	Present
Dimensions (WxDxH):	483 x 300 x 44mm (1RU)
Weight:	ET4200CPp-RS16:4Kg
	ET4200CPp-RS16P: 4.5Kg
Casing:	Aluminum case
Mounting Option:	RackMount

Regulatory Approvals

ISO9001 EN55022 Class A, FCC part 15 Class A Surge Protection: RJ45: 1kV Coax: 2kV Power: 500V







ET1100C2 Series Industrial 10/100Base-TX Ethernet plus CVBS Over Coax Converters

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Features

General

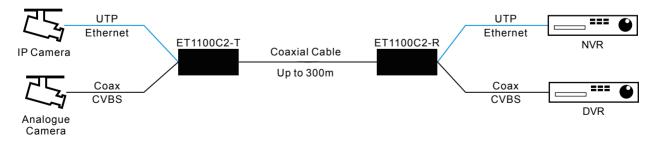
- ▶ Ethernet Extension : Security Link over Coax
- Simultaneous transmission of IP and CVBS over single coaxial cable
- Constant Data Rate: 36Mbps(Downlink) / 11Mbps(Uplink)
- ► Maximum distance: 300m over Coax(RG-59/U)
- ► Support Auto MDI/MDI-X
- -10°C to 60°C Operating Temperature

Warranty

5-Year Warranty

Ordering Information

Model	Description
ET1100C2-T ET1100C2-R	Transmitter of 10/100 Base -TX Ethernet plus CVBS Over Coaxial Receiver of 10/100 Base -TX Ethernet plus CVBS Over Coaxial
Power Options	 ET-PA/12V 1.25A 12VDC Power Adaptor. Open wire for Terminal Block. Power Adaptor is included for all sales.



Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u100BASE-TX
	IEEE802.3x Flow Control
Cabling:	
10Base-T	Cat3,4,5orabove
100Base-TX	Cat5orabove
Maximum Distance:	100m
Connector	1xRJ45

Coaxial

Cabling:	Coaxial Cable (75 ohm)
Connector:	1 BNC (female)
Transmission Distance:	Up to 300m on RG-59/U
DataRate:	
Downlink:	36Mbps@300m (Constant)
Uplink:	11Mbps@300m (Constant)
Technology:	SLOC (Security Link over Coax)

Video

No. of Channel: Colour Systems: In/Output Impedance: In/Output Connector: In/Output:

1		
NTSC, PAL		
75Ω		
1 BNC (ferr	nale)	
1Vp-p		

Electrical and Mechanical

InputPower:	12VDC @ 200mA Max
Power Consumption:	2.4W Max
Protection:	
Reverse Polarity:	Present
Overload:	Present
LED Indicators:	
Power:	PowerStatus
Ethernet:	Link/Activity, Speed
Video:	Video IN (Tx)
	Video OUT (Rx)
Coax:	Link, Activity
Dimensions (WxDxH):	70x97x23.6mm
Weight:	200g
Casing:	Aluminum case
Mounting Option:	WallMounting

Environmental

Operating Temperature:	-10°C to 60
Storage Temperature:	-40°C to 8
Relative Humidity:	5% to 90% r

-10°C to 60°C (14°F to 140°F) -40°C to 85°C (-40°F to 185°F) 5% to 90% non-condensing

Regulatory Approvals

ISO9001 FCC Part 15 Class A EN55022 Class A RoHS EN61000-4-5 (Surge Standards) RJ45: 1kV Coax: 2kV Power: 500V





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ET1100C Series Industrial Microtype 10/100Base-TX Ethernet Over Coax Converters



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Features

General

- ► Ethernet Extension: Security Link over Coax
- Constant Data Rate: 20Mbps(Downlink) / 3Mbps(Uplink)
- ► Maximum distance: 300m over Coax(RG-59/U)
- Microtype fits within most camera housings
- -10°C to 60°C (14°F to 140°F) operating temperature
- ► Built-in Surge Protection

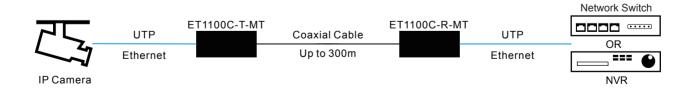
Warranty

► 5-Year Warranty

Ordering Information

OT Systems

Model	Description
ET1100C-T-MT ET1100C-R-MT	Transmitter of 10/100 Base -TX Ethernet Over Coaxial Receiver of 10/100 Base -TX Ethernet Over Coaxial
Mounting Options Power Options	 Built-in Wall Mount Bracket. Rack-mountable on 1U rack MR-C10 (Purchase Separately). ET-PA/12V 1.25A 12VDC Power Adaptor. Open Wire for Terminal Block. Power Adaptor is included for all sales.



ET1100C Series

Specifications

Ethernet

Standards:	IEEE802.310BASE-T
	IEEE802.3u100BASE-TX
Cabling:	10BASE-T: Cat3,4,5 or above
	100BASE-TX:Cat5orabove
Maximum Distance:	Cat5UTP up to 100m
Connector:	1 x RJ45

Coaxial

Cabling:	Coaxial Cable (75 ohm)
Connector:	1 BNC (female)
Distance:	Up to 300m on RG-59/U
DataRate:	
Downlink (TX to RX)	20Mbps (Constant)
Uplink (RX to TX)	3Mbps (Constant)

Environmental

Operating Temperature:	-10°C to 60°C (14°F to 140°F)
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	0% to 90% non-condensing

Electrical and Mechanical

Input Power:	12VDC Terminal Block
Power Consumption:	2.4W Max. 0.2A@12VDC
LED Indicators:	
Power:	PowerStatus
Coax:	CoaxLink
Data:	Activity
Dimensions (WxDxH):	36.2x24.5x101 mm
Weight:	0.1kg (0.25kg with PA)
Casing:	Aluminum case
Mounting Options:	WallMount/MR-C10(1URack)

Regulatory Approvals

ISO9001 FCC Part 15 Class A EN55022 Class A





OT Systems Ltd., Nov 2014 Due to continuous improvement, all product specifications are subject to change without further notice.

ET1100UPp Series Industrial 10/100Base-TX Ethernet over UTP Extender with PoE+ & PoW





Features

General

- ▶ PoE+(30W) and Power over Wire
- ▶ 802.af/802.3at Compliant
- Data Rate up to: 90Mbps(Downlink), 90Mbps (Uplink)
- Max. Distance: 600m over Cat5e cable.
- Support Wall Mount installation
- -10°C to 60°C (14°F to 140°F) operating temperature

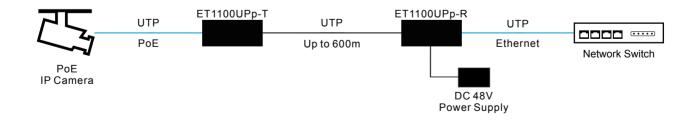
Warranty

► 5-Year Warranty

Ordering Information

Model	Description
ET1100UPp-T ET1100UPp-R	Transmitter of 10/100Base-TX Ethernet over UTP with PoE+ & PoW Receiver of 10/100Base-TX Ethernet over UTP with PoE+ & PoW
Mounting Options Power Options	 Default Wall Mount built-in. GS60A48 60W/1.25A 48VDC Power Supply. Open wire for Terminal Block. Power Supply is to be purchased separately.

NOTES: (1) Transmission distance may varies with quality and material of Cat5/UTP Cable.



Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u100BASE-TX
	IEEE802.3af Power over Ethernet
	IEEE802.3atPoweroverEthernet
Ethernet:	
Connector:	1xRJ45
Cabling:	Cat5orabove
Maximum Distance:	100m
UTP:	
Cabling:	Cat5orabove
Connector:	1xRJ45
Distance:	Up to 600m on Cat5e Cable
Data Rate:	
Downlink:	90Mbps(Max.)
Uplink:	90Mbps(Max.)
Technology:	PowerLineCommunication(PLC)

Environmental

Operating Temperature:-10°C to 60°C (14°F to 140°F)Storage Temperature:-40°C to 85°C (-40°F to 185°F)Relative Humidity:5% to 95% non-condensing

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022:2006+A1:2007 Surge Protection RJ45: 1KV Power: 0.5KV UTP: 2kV

FC CE

Electrical and Mechanical

Input Power:	48VDC (Terminal block)
Power Consumption:	8W Max. (PoW not in use)
	60W Max.(PoW in use)
Protection:	
Reverse Polarity:	Present
PowerInputOverload:	Automatic Resettable
LED Indicators:	
Power:	PowerStatus
Ethernet:	SPD, LINK/ACT, PoE(Transmitter)
UTP Data:	LINK(Transmitter)/READY(Receiver)
	PoW(Receiver)
	ACT
PoE:	
Standard:	IEEE802.3at
Port:	RJ45
Max. Power:	30W Max. (Alternative B mode)
Dimensions (WxDxH):	114x72x31mm
Weight:	0.25Kg
Casing:	Mini Aluminum case
Mounting Options:	WallMount











Features

General

- Data Rate up to: 90Mbps(Downlink), 90Mbps (Uplink)
- ▶ Max. Distance: 600m over Cat5e cable.
- Support Auto MDI/MDI-X
- Support Wall Mount installation
- -10°C to 60°C (14°F to 140°F) operating temperature

Warranty

► 5-Year Warranty

Ordering Information

Model	Description
ET1100U-T ET1100U-R	Transmitter of 10/100Base -TX Ethernet over UTP Receiver of 10/100Base -TX Ethernet over UTP
Mounting Options Power Options	 Default Wall Mount built-in. ET-PA/12V 1.25A 12VDC Power Adaptor. Open wire for Terminal Block. Power Adaptor is included for all sales.

NOTES: (1) Transmission distance may varies with quality and material of Cat5/UTP Cable.



Ethernet

IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX
1xRJ45
Cat5orabove
100m
Cat5 or above
1xRJ45
Up to 600m on Cat5e Cable
90Mbps(Max.)
90Mbps(Max.)
PowerLineCommunication(PLC)

Environmental

Operating Temperature:	-10°C to 60°C (14°F to 140°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing

Electrical and Mechanical

Input Power:	12VDC (Terminal Block)
PowerConsumption:	8W Max.
Protection:	
Reverse Polarity:	Present
PowerInputOverload:	Present
LED Indicators:	
Power:	PowerStatus
Ethernet:	LINK/ACT
UTP Data:	SPD(Transmitter)/READY(Receiver)
	ACT
Dimensions (WxDxH):	114x72x31mm
Weight:	0.2Kg
Casing:	Mini Aluminum case
Mounting Options:	WallMount

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022:2006+A1:2007 Surge Protection RJ45:1kV Power:0.5kV UTP:2kV





OT Systems Ltd., Nov 2014 Due to continuous improvement, all product specifications are subject to change without further notice.

ET1111 Series

Industrial Microtype 10/100Base-TX to 100Base-FX Ethernet Media Converter





Features

General

- Converts 10/100BASE-TX to 100BASE-FX
- Full/Half duplex, Auto-Negotiation
- Singlemode or Multimode fiber operation
- Single or Dual-core fiber with SC or ST connectors
- MDI/MDI-X Auto-Crossover supported
- Sleek Microtype design, fits within most camera housing
- Plug-and-Play
 - 12VDC or 24VAC Terminal Block Power inputs
- -10°C to 60°C (14°F to 140°F) operating temperature

Warranty

5-Year Warranty

Model Description Industrial Microtype 10/100Base-TX to 100Base-FX Ethernet Media Converter ET1111-X-MT (X) = **Fiber Options** Wavelengths Link Budget Max. Distance Multimode/2-fiber/SC 1310nm 14dB 2km Α Singlemode/2-fiber/SC 1310nm 21dB B 20km с Multimode/WDM 1-fiber/SC TX:1310nm/RX:1550nm 21dB 2km Multimode/WDM 1-fiber/SC TX:1550nm/RX:1310nm D 21dB 2km Singlemode/WDM 1-fiber/SC TX:1310nm/RX:1550nm 19dB Ε 20km TX:1550nm/RX:1310nm F Singlemode/WDM 1-fiber/SC 19dB 20km Multimode/2-fiber/ST 1310nm G 14dB 2km Singlemode/2-fiber/ST 1310nm 21dB н 20km Multimode/WDM 1-fiber/ST TX:1310nm/RX:1550nm I 21dB 2km J Multimode/WDM 1-fiber/ST TX:1550nm/RX:1310nm 21dB 2km Singlemode/WDM 1-fiber/ST TX:1310nm/RX:1550nm к 19dB 20km Singlemode/WDM 1-fiber/ST TX:1550nm/RX:1310nm 19dB L 20km Built-in Wall Mount Bracket. Rack-mountable on 1U rack MR-C10 (Purchase Separately). Mounting Options **Power Options** ■ ET-PA/12V 1.25A 12VDC Power Adaptor. Open wire for Terminal Block.

NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network. (2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth.

Power Adaptor is included for all sales

(3) Please feel free to consult factory for any special requirement and customization

Media Converters

Ordering Information

ET1111 Series

Specifications

Ethernet

Standards:	IEEE802.310BASE-T
	IEEE802.3u100BASE-TX/FX
	IEEE802.3x Flow Control
Processing Type:	Store and forward
	Half-duplex, Full-duplex
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
Cabling:	10BASE-T: Cat5 or above
	100BASE-TX:Cat5orabove
Maximum Distance:	Cat5UTP up to 100m
Connector:	1 x RJ45
Address Table Size:	2048 MAC Addresses

Optical

9/125µm (Singlemode)
2km (Multimode)
20km (Singlemode)
1310nm
1310/1550nm
SC/ST

Environmental

Relative Humidity: MTBF:	0% to 95% non-condensing > 100.000 hours
8	
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Operating Temperature:	-10°C to 60°C (14°F to 140°F)

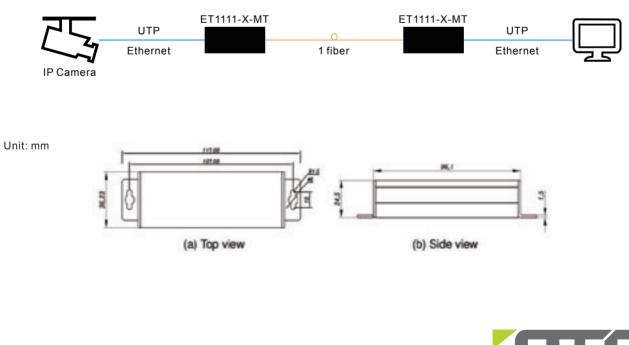
Electrical and Mechanical

Input Power:	12VDC or 24VAC (Terminal Block)
PowerConsumption:	2.4W Max. 0.2A@12VDC
LED Indicators:	
Power:	PowerStatus
10/100TX(PerPort):	Link/Activity, Speed
100FX(PerPort):	Link/Activity
Dimensions (WxDxH):	36.2x98x24.5mm
Weight:	0.12Kg (0.22Kg with PA)
Casing:	Aluminum case
Mounting Options:	Wall-mount/MR-C101URack

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022:2006+A1: 2007 Class A EN 61000-3-2: 2006 EN 61000-3-3: 2008 EN 55024: 1998 + A1: 2001 + A2: 2003

Media Converters







100



Features

General

- ► Converts 100BASE-TX to 100BASE SFP
- ► Supports Full/Half duplex
- Supports external SFP
- Supports Auto MDI/MDI-X
- Sleek Microtype design, fits within most camera housing
- Extensive LED indicators for network diagnostics
- Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

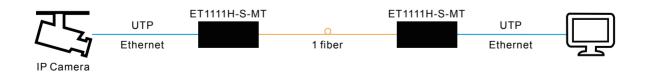
Warranty

► 5-Year Warranty

Ordering Information

OT Systems

Model	Description
ET1111H-S-MT	Hardened Microtype 100Base-TX to 100Base-FX SFP Ethernet Media Converter
SFP Options	 ■ (S) = SFP option. Please select your SFP on our SFP Options page. ■ SFP module is to be purchased separately.
Mounting Options	■ Built-in Wall Mount Bracket. ■ Rack-mountable on 1U rack MR-C10 (Purchase Separately).
Power Options	 ET-PA/12V 1.25A 12VDC Power Adaptor. Open wire for Terminal Block. Power Adaptor is included for all sales.



ET1111H Series

Specifications

Ethernet Standards:

IEEE802.3u 100BASE-TX/FX
IEEE802.3x Flow Control
Forward
148,800pps (100Mbps)
100BASE-TX: Cat5 or above
Cat5UTPupto100m
1 x R J 45
1 x SFP 100BASE-FX

Environmental

Relative Humidity:	5% to 95% non-condensing
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Operating Temperature:	-40°C to 75°C (-40°F to 167°F)

Electrical and Mechanical

Input Power:	12VDC (Terminal Block)
PowerConsumption:	2.4W Max. 0.2A@12VDC
LED Indicators:	
Power:	PowerStatus
100TX:	Link/Activity, Speed
SFP:	Link/Activity
Dimensions (WxDxH):	36.2x117x24.5mm
Weight:	0.15Kg
Casing:	MetalCase
Mounting Options:	Wall-mount/MR-C101URack

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power: 500V ESD: 4kV/8kV







EC1111 Series Econ-line 10/100Base-TX to 100Base-FX Ethernet Media Converter



ECHIN



Features

General

- ► Convert 10/100BASE-TX to 100BASE-FX
- ► Full/Half duplex, Auto-Negotiation
- Single mode or Multi-mode fiber operation
- ► Single or Dual-core fiber with SC connectors
- MDI/MDI-X Auto Crossover supported
- Plug-and-Play
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 1-Year Warranty

Ordering Information

Model	Description			
EC1111-X	Econ-line 10/100Base-T>	Econ-line 10/100Base-TX to 100Base-FX Ethernet Media Converter		
(X) =	Fiber Options	Wavelengths	Link Budget	Max. Distance
A	Multimode/2-fiber/SC	1310nm	12dB	2km
В	Singlemode/2-fiber/SC	1310nm	19dB	20km
с	Multimode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	16dB	2km
D	Multimode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	16dB	2km
E	Singlemode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	25dB	20km
F	Singlemode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	25dB	20km
Mounting Options	 Desktop bracket. Rack-Mountable on 2U rack E 	C-C14 (Purchase Separately).		
Power Options	 1A/5VDC Power Adapter with Power Adapter is included for 			

NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusers, splices and the fibers within the network. (2) Operating distance of multimode is limited by the characteristic of the fiber bandwidth.

(3) Please feel free to contact factory for any special requirement and customization.

EC1111 Series

Specifications

Ethernet

Connector: Address Table Size:	1 x R J 45 1024MAC Addresses
Maximum Distance:	Cat5 Up to 100m
	100BASE-TX Cat5 or above
Cabling:	10BASE-T Cat5 or above
	148,810pps (100Mbps)
Forward Filter Rate:	14,880pps (10Mbps)
	Half-duplex, Full-duplex
Processing Type:	Store-and-Forward
	IEEE802.3u 100BASE-FX
	IEEE802.3u 100BASE-TX
Standards:	IEEE802.3 10BASE-T

Optical

Connector:	SC
	1310/1550nm
Wavelength:	1310nm
	20km (Singlemode)
Maximum Distance:	2km (Multimode)
	9/125µm (Singlemode)
Cabling:	62.5/125µm (multimode)

Environmental

Operating Temperature:	0°C to 50°C (32°F to 122°F)
StorageTemperature:	-40°C to 80°C (-40°F to 176°F)
Relative Humidity:	5% to 95% non-condensing

Electrical and Mechanical

Input Power:	5VDC (DC Socket)
PowerConsumption:	2.5W Max, 0.5A@5VDC
LED Indicators:	
Power:	Power Status
10/100TX (Per Port):	Link/Activity, Speed, FDX
100FX (Per Port):	Link/Activity, SD
Dimensions (WxDxH):	71x105x27mm
Weight:	0.2Kg
Casing:	MetalCase
Mounting Options:	Desktop/EC-C14 2U Rack

Regulatory Approvals

ISO9001 FCC CE



OT Systems Ltd., Jan 2015 Due to continuous improvement, all product specifications are subject to change without further notice.



TS

1000



Features

General

- ► Converts 1000BASE-T to 1000BASE SFP
- ► Supports Full/Half duplex
- ► Supports external 1000BASE SFP
- Supports Auto MDI/MDI-X
- Sleek Microtype design, fits within most camera housing
- Extensive LED indicators for network diagnostics
- Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

Warranty

► 5-Year Warranty

Ordering Information

OT Systems

SFF

Model	Description
ET1212H-S-MT	Hardened Microtype 1000Base-TX to 1000Base-FX SFP Ethernet Media Converter
SFP Options	 ■ (S) = SFP option. Please select your SFP on our SFP Options page. ■ SFP module is to be purchased separately.
Mounting Options	 Built-in Wall Mount Bracket. Rack-mountable on 1U rack MR-C10 (Purchase Separately).
Power Options	 ET-PA/12V 1.25A 12VDC Power Adaptor. Open wire for Terminal Block. Power Adaptor is included for all sales.



Ethernet

Standards:	IEEE802.3ab1000BASE-T
	IEEE802.3azGigabitFiber
	IEEE802.3X Flow Control
Processing Type:	Forward
Forward Filter Rate:	1,488,000pps (1000Mbps)
Cabling:	1000BASE-T: Cat5 or above
Maximum Distance:	Cat5UTP up to 100m
Connector:	1 x RJ45
Optical Port:	1 xSFP 1000BASE-X

Environmental

Relative Humidity:	5% to 95% non-condensing
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Operating Temperature:	-40°C to 75°C (-40°F to 167°F)

Electrical and Mechanical

Input Power:	12VDC (Terminal Block)
PowerConsumption:	2.4W Max.0.2A@12VDC
LED Indicators:	
Power:	PowerStatus
1000TX:	Link/Activity,Speed
SFP:	Link/Activity
Dimensions (WxDxH):	36.2x117x24.5mm
Weight:	0.15Kg
Casing:	MetalCase
Mounting Options:	Wall-mount/MR-C101URack

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power:500V ESD: 4kV/8kV





EC1212 Series Econ-line 10/100/1000Base-TX to 1000Base-X Ethernet Media Converter





Features

General

- Convert 10/100/1000BASE-TX to 1000BASE-X
- ► Full/Half duplex, Auto-Negotiation
- Single mode or Multi-mode fiber operation
- ► Single or Dual-core fiber with SC connectors
- MDI/MDI-X Auto Crossover supported
- Plug-and-Play
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 1-Year Warranty

-		
Ord	erina	Information
	-	

Model	Description			
EC1212-X	Econ-line 10/100/1000B	Econ-line 10/100/1000Base-TX to 1000Base-X Ethernet Media Converter		
(X) =	Fiber Options	Wavelengths	Link Budget	Max. Distance
A	Multimode/2-fiber/SC	1310nm	12dB	2km
В	Singlemode/2-fiber/SC	1310nm	15dB	20km
с	Multimode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	8dB	2km
D	Multimode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	8dB	2km
E	Singlemode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	16dB	20km
F	Singlemode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	16dB	20km
Mounting Options	■ Desktop bracket. ■ Rack-Mountable on 2U rack E	C-C14 (Purchase Separately).		
Power Options	ions IA/5VDC Power Adapter with DC Jack. Power Adapter is included for all sales.			

NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusers, splices and the fibers within the network. (2) Operating distance of multimode is limited by the characteristic of the fiber bandwidth.

(3) Please feel free to contact factory for any special requirement and customization.

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.30 100BASE-TX
	IEEE802.3ab 1000BASE-T
	IEEE802.3z 1000BASE-X
	IEEE802.3x Flow Control
Processing Type:	Store-and-Forward
	Half-duplex, Full-duplex
Forward Filter Rate:	14,880pps (10Mbps)
	148,810pps (100Mbps)
	1,488,000pps (1000Mbps)
Cabling:	10BASE-T Cat5 or above
	100BASE-TX Cat5 or above
	1000BASE-T Cat5 or above
Maximum Distance:	Cat5 Up to 100m
Connector:	1 x RJ45
Address Table Size:	1024MAC Addresses

Optical

Connector:	SC
	1310/1550nm
Wavelength:	1310nm
	20km (Singlemode)
Maximum Distance:	2km (Multimode)
	9/125µm (Singlemode)
Cabling:	62.5/125µm (multimode)

Environmental

Operating Temperature:	0°C to 50°C (32°F to 122°F)
StorageTemperature:	-40°C to 80°C (-40°F to 176°F)
Relative Humidity:	5% to 95% non-condensing

Electrical and Mechanical

Input Power:	5VDC (DC Socket)
Power Consumption:	2.5W Max, 0.5A@5VDC
LED Indicators:	
Power:	Power Status
10/100/1000TX(Per Port):	Link/Activity, Speed(100M, 1000M), FDX
1000FX (Per Port):	Link/Activity
Dimensions (WxDxH):	71x105x27mm
Weight:	0.2Kg
Casing:	MetalCase
Mounting Options:	Desktop/EC-C14 2U Rack

Regulatory Approvals

ISO9001 FCC CE





TS





Features

General

- ► Complies with 802.3af PoE/PSE standard (15.4W)
- 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
- ► Full wire-speed forwarding rate
- ▶ 128K bits buffer memory
- Aluminum case
- Support Wall-mount installation
- ► -10°C to 60°C (14°F to 140°F) operating temperature

Warranty

► 5-Year Warranty

Ordering Information

Model	Description	Description		
ET1111P-X	Industrial 10/100Base-TX to	Industrial 10/100Base-TX to 100Base-FX Ethernet Media Converter with PoE		
(X) =	Fiber Options	Wavelengths	Link Budget	Max. Distance
A	Multimode/2-fiber/SC	1310nm	11dB	2km
В	Singlemode/2-fiber/SC	1310nm	17dB	20km
с	Multimode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	8dB	2km
E	Singlemode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	17dB	20km
G	Multimode/2-fiber/ST	1310nm	11dB	2km
н	Singlemode/2-fiber/ST	1310nm	17dB	20km
I	Multimode/WDM 1-fiber/ST	TX:1310nm/RX:1550nm	8dB	2km
K	Singlemode/WDM 1-fiber/ST	TX:1310nm/RX:1550nm	17dB	20km
Power Options	 GS60A48 60W/1.25A 48VDC Power Supply. Open wire for Terminal Block. Power Supply is to be purchased separately. 			

NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network. (2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth.

ET1111P Series

Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T	Input Power:	48VDC (2 pin terminal block)
	IEEE802.3u 100BASE-TX/FX	Power Consumption:	19.2W, 0.4A@48VDC (PoEinuse)
	IEEE802.3af Power over Ethernet		2.4W, Max. 0.05A@48VDC (PoEnot
Packet Buffer Memory: 128K bits			in use)
Processing Type:	Store and forward	Protection:	
Forward Filter Rate:	14,880pps (10Mbps)	Overload:	Present
	148,810pps (100Mbps)	Over Voltage:	Present
Cabling:	10BASE-T: Cat5 or above	LED Indicators:	
	100BASE-TX: Cat5 or above	Power:	PowerStatus
Maximum Distance:	Cat5UTP up to 100m	10/100TX(PerPort):	Link/Activity,Speed
Connector:	1 x RJ45	100FX(PerPort):	Link/Activity
		PoE:	PD connect/PD detection/
Optical			PDdisconnect
Cabling:	62.5/125µm (Multimode)	PoE:	
	9/125µm (Singlemode)	Standard:	IEEE802.3af
Maximum Distance:	2km (Multimode)	Port:	RJ45
	20km (Singlemode)	Max. Power:	15.4W Max (Alternative A mode)
Wavelength:	1310nm	Dimensions (WxDxH):	83x70x23.6mm
	1310/1550nm	Weight:	0.2Kg
Connector:	SC/ST	Casing:	Aluminum case
		Mounting Options:	Wall-mount
Environmental		Pogulaton (Apr	
Operating Temperature: 10°C to 60°C (14°E to 140°E)		Regulatory App	novais

Relative Humidity:

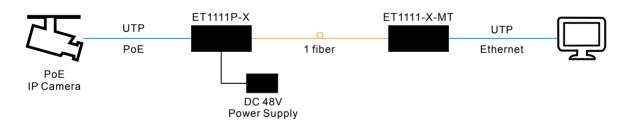
Operating Temperature: -10°C to 60°C (14°F to 140°F) Storage Temperature: -20°C to 70°C (-4°F to 158°F) 5% to 95% non-condensing

Regulatory Approvals ISO9001 FCC Part 15, Class A

Electrical and Mechanical

EN55022:2006+A1:2007

Typical Application





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Due to continuous improvement, all product specifications are subject to change without further notice.

33

ET1111PpH Series Hardened 100Base-TX to 100Base-FX SFP Ethernet Media Converter with PoE+





Features

General

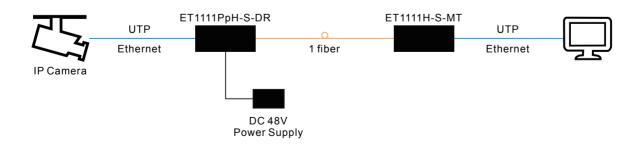
- ► Converts 100BASE-TX to 100BASE SFP
- ► Supports IEEE802.3at PoE+(30W)
- Supports Full/Half duplex
- Supports external 100BASE SFP
- ► Supports Auto MDI/MDI-X
- ► Supports DIN-Rail & Wall-mount installation
- ► Extensive LED indicators for network diagnostics
- Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

Warranty

► 5-Year Warranty

Ordering Information

Model	Description
ET1111PpH-S-DR	Hardened 100Base-TX to 100Base-FX SFP Ethernet Media Converter with PoE+
SFP Options	 (S) = SFP option. Please select your SFP on our SFP Options Page. SFP module is to be purchased separately.
Mounting Options	Default DIN-Rail Bracket installed, Wall Mount Bracket is included.
Power Options	 GS60A48 60W/1.25A 48VDC Power Supply. Open Wire for Terminal Block. Power Supply is to be purchased separately.



Ethernet

Standards:	IEEE802.3u 100BASE-TX/FX
	IEEE802.3afPoweroverEthernet
	IEEE802.3at Power over Ethernet
	IEEE802.3x Flow Control
Processing Type:	Forward
Forward Filter Rate:	148,800pps (100Mbps)
Cabling:	100BASE-TX: Cat5 or above
Maximum Distance:	Cat5UTP up to 100m
Connector:	1 x R J 45
Optical Port:	1 x SFP 100BASE-FX

Environmental

OperatingTemperature:	-40°C to 75°C (-40°F to 167°F)
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing
MTBF:	> 100,000 hours

Electrical and Mechanical

Input Power:	48VDC (Terminal Block)
Power Consumption:	36W Max. 0.75A@48VDC
PoE:	
Standard:	IEEE802.3at
Port:	RJ45
Max. Power:	30W Max per port (Alternative B Mode)
LED Indicators:	
Power:	PowerStatus
100TX:	Link/Activity,Speed
SFP:	Link/Activity
Dimensions (WxDxH):	96x80x31 mm
Weight:	0.25Kg
Casing:	MetalCase
Mounting Options:	DIN-Rail/Wall-mount

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022:2006+A1:2007 Class A Surge Protection RJ45:1kV Power:500V ESD:4kV/8kV



OT Systems Ltd., Jan 2015 Due to continuous improvement, all product specifications are subject to change without further notice.



ET1212PpH Series Hardened 1000Base-TX to 1000Base-FX SFP Ethernet Media Converter with PoE+





Features

General

- ► Converts 1000BASE-T to 1000BASE SFP
- ► Supports IEEE802.3at PoE+(30W)
- Supports Full/Half duplex
- ► Supports external 1000BASE SFP
- Supports Auto MDI/MDI-X
- ► Supports DIN-Rail & Wall-mount installation
- ► Extensive LED indicators for network diagnostics
- Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

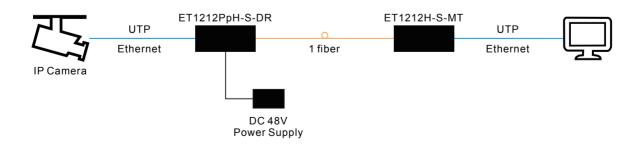
Warranty

5-Year Warranty

Ordering Information

Model	Description
ET1212PpH-S-DR	Hardened 1000Base-TX to 1000Base-FX SFP Ethernet Media Converter with PoE+
SFP Options	 (S) = SFP option. Please select your SFP on our SFP Options Page. SFP module is to be purchased separately.
Mounting Options	Default DIN-Rail Bracket installed, Wall Mount Bracket is included.
Power Options	 GS60A48 60W/1.25A 48VDC Power Supply. Open Wire for Terminal Block. Power Supply is to be purchased separately.

Typical Application



Specifications

Ethernet

Standards:	IEEE802.3ab1000BASE-T
	IEEE802.3az Gigabit Fiber
	IEEE802.3afPoweroverEthernet
	IEEE802.3at Power over Ethernet
	IEEE802.3x Flow Control
Processing Type:	Forward
	Half-duplex, Full-duplex
Forward Filter Rate:	1,488,000pps (1000Mbps)
Cabling:	1000BASE-T: Cat5 or above
Maximum Distance:	Cat5UTP up to 100m
Connector:	1 x R J 45
Optical Port:	1×SFP 1000BASE-X

Environmental

StorageTemperature: Relative Humidity:

Operating Temperature: -40°C to 75°C (-40°F to 167°F) -40°C to 85°C (-40°F to 185°F) 5% to 95% non-condensing

Electrical and Mechanical

Input Power:	48VDC (Terminal Block)
Power Consumption:	36W Max.0.75A@48VDC
PoE:	
Standard:	IEEE802.3at
Port:	RJ45
Max. Power per Port:	30W Max per port (Alternative B Mode)
LED Indicators:	
Power:	PowerStatus
1000TX:	Link/Activity,Speed
SFP:	Link/Activity
Dimensions (WxDxH):	96x80x31mm
Weight:	0.25Kg
Casing:	MetalCase
Mounting Options:	DIN-Rail/Wall-mount

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power: 500V ESD: 4kV/8kV





TS

ET8181/ET161161 Series

Industrial Rack-mount 8/16-port 10/100Base-TX to 8/16-port 100Base-FX SFP Ethernet Media Converter





Features

General

- ▶ 19" 1U Rack-mount
- ► Converts 10/100BASE-TX to 100BASE SFP
- Supports Full/Half duplex, Auto Negotiation
- ► Supports Auto MDI/MDI-X
- Supports external 100BASE SFP
- AC Power input
- ▶ -10°C to 60°C (14°F to 140°F) operating temperature

Warranty

► 5-Year Warranty

Ordering Information

Model	Description
ET8181-S ET161161-S	Industrial Rack-mount 8-port 10/100Base-TX to 8-port 100Base-FX SFP Ethernet Media Converter Industrial Rack-mount 16-port 10/100Base-TX to 16-port 100Base-FX SFP Ethernet Media Converter
SFP Options	 (S) = SFP option. Please select your SFP on our SFP Options Page. SFP module is to be purchased separately.
Mounting Options	■ 19" 1U Rack Mount.
Power Options	■ 100~240VAC input.

NOTES: (1) Please feel free to consult factory for any special requirement and customization

Specifications

Ethernet

IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX/FX
Convertermode
14,880pps (10Mbps)
148,800pps (100Mbps)
10BASE-T: Cat5 or above
100BASE-TX: Cat5 or above
128K bits
1600 Bytes

Interface

Connector:	
10/100TX:	8*1/16*2×RJ45
100FX:	8#1/16#2×SFP
LED Indicators:	
Power:	PowerStatus
10/100TX(PerPort):	Link/Activity, Speed
100FX(PerPort):	Link

Electrical and Mechanical

Input Power:	100~240VAC, 50/60Hz
PowerConsumption:	100mA ^{#1} /200mA ^{#2} @220VAC
Dimensions (WxDxH):	433x250x44mm
Weight:	1.5 ^{#1} /2 ^{#2} Kg
Casing:	Metalcase
Mounting Options:	RackMount

Environmental

Operating Temperature:	-10°C to 60°C (14°F to 140°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	0% to 95% (non-condensing)

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022 Class A Surge Protection: RJ45: 1kV Power: 0.5kV

^{#1}ET8181 Series ^{#2}ET161161 Series





ET2111 Series

Industrial Unmanaged 2-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch





Features

General

- ► Converts 10/100BASE-TX to 100BASE-FX
- ► Full/Half deplex, Auto-Negotiation
- ► Singlemode or Multimode fiber operation
- ▶ Single or Dual-core fiber with SC or ST connectors
- ▶ Store and forward switching mechanism
- MDI/MDI-X Auto-Crossover supported
- Plug-and-Play
- ▶ Wall-mount or operate in ET-C12 rack mount chassis
- ► -20°C to 60°C (-4°F to 140°F) operating temperature

Warranty

► 5-Year Warranty

Ordering Information

Ordering Inf	ormation			
Model	Description			
ET2111-X-YY	Industrial Unmanaged 2-p	Industrial Unmanaged 2-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch		
(X) =	Fiber Options	Wavelengths	Link Budget	Max. Distance
A	Multimode/2-fiber/SC	1310nm	14dB	2km
В	Singlemode/2-fiber/SC	1310nm	21dB	20km
с	Multimode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	21dB	2km
D	Multimode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	21dB	2km
E	Singlemode/WDM 1-fiber/SC	TX:1310nm/RX:1550nm	19dB	20km
F	Singlemode/WDM 1-fiber/SC	TX:1550nm/RX:1310nm	19dB	20km
G	Multimode/2-fiber/ST	1310nm	14dB	2km
н	Singlemode/2-fiber/ST	1310nm	21dB	20km
1	Multimode/WDM 1-fiber/ST	TX:1310nm/RX:1550nm	21dB	2km
J	Multimode/WDM 1-fiber/ST	TX:1550nm/RX:1310nm	21dB	2km
к	Singlemode/WDM 1-fiber/ST	TX:1310nm/RX:1550nm	19dB	20km
L	Singlemode/WDM 1-fiber/ST	TX:1550nm/RX:1310nm	19dB	20km
(YY) =	Installation			
SA	Standalone Wall-Mount			
СМ	Card Module			
Power Options	 ET-PA/12V 1.25A 12VDC Pow Power Adaptor is included for For CM Model, power from ET-1 	all sales.		

NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.

(2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth.

(3) Please feel free to consult factory for any special requirement and customization

ET2111 Series

Specifications

Ethernet

EE802.3u 100BASE-TX/FX EE802.3x Flow Control
EE802.3x Flow Control
ore and forward
alf-duplex, Full-duplex
4,880pps (10Mbps)
48,800pps (100Mbps)
DBASE-T:Cat5orabove
00BASE-TX:Cat5orabove
at5UTP up to 100m
xRJ45
048 MAC Addresses

Optical

62.5/125µm (Multimode)
9/125µm (Singlemode)
2km (Multimode)
20km (Singlemode)
1310nm
1310/1550nm
SC/ST

Electrical and Mechanical

Input Power:	12VDC (DC Jack)
Power Consumption:	2.4W Max.0.21A@12VDC
LED Indicators:	
Power:	PowerStatus
10/100TX(PerPort):	Link/Activity,Speed
100FX(PerPort):	Link/Activity
Dimensions (WxDxH):	
Standalone	122x30x103mm
Card Module	130x31x111mm
Weight:	
Standalone	0.33Kg (0.43Kg with PA)
Card Module	0.33Kg
Casing:	Aluminum case
Mounting Options:	Wall-mount/ET-C12RackMount

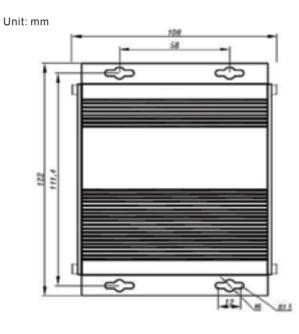
Regulatory Approvals

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ISO9001
FCC Class A
EN55022:2006 Class A
EN 55024:1998 + A1:2001 + A2:2003

Environmental

Storage Temperature: Relative Humidity: MTBF:

Operating Temperature: -20°C to 60°C (-4°F to 140°F) -40°C to 85°C (-40°F to 185°F) 0% to 95% non-condensing > 100,000 hours















General

- 8 100BASE-FX SFP + 2 10/100/1000BASE-TX/SFP Combo
- Combo RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
- Supports external SFP
- ► Supports 802.3x Flow control
- Supports 8K MAC address
- ► 1M bits frame buffer memory
- Supports Relay output for Power and Port failure
- Supports DIN-Rail and Wall-mount installation
- Redundant Power Inputs
- Environmentally Hardened -40°C to 75°C (-40°F to 167°F) operating temperature

Warranty

► 5-Year Warranty

Model	Description	
ET2281H-S	Hardened Unmanaged 8-port 100Base-FX SFP + 2-port 10/100/1000Base-T/SFP Combo Optical Ethernet Switch	
SFP Options Mounting Options Power Options	 (S) = SFP option. Please select your SFP on our SFP Option page. SFP module is to be purchased separately. Default DIN-Rail Bracket installed, Wall Mount Bracket is included. DR-120-48 120W/2.5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block. DRP-240-48 240W/5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block. G\$120A48 120W/2.5A 48VDC Power Supply. Open Wire for Terminal Block. G\$220A48 220W/4.6A 48VDC Power Supply. Open Wire for Terminal Block. Power Supply is to be purchased separately. 	

ET2281H

Specifications

Ethernet

IEEE802.3 10BASE-T
IEEE802.3u100BASE-TX/FX
IEEE802.3ab1000BASE-T
Store-and-forward
14,880pps (10Mbps)
148,800pps (100Mbps)
1,488,000pps (1000Mbps)
1Mbit
1522 Bytes
8K MAC Addresses
2xRJ45
10xSFP

Environmental

Storage Temperature: Relative Humidity:

Operating Temperature: -40°C to 75°C (-40°F to 167°F) -40°C to 85°C (-40°F to 185°F) 5% to 95% non-condensing

Electrical and Mechanical

Input Power:	12~48VDC, Redundant Power
	(6-pin Terminal Block)
PowerConsumption:	Max.7W (Systemno-load)
	Max. 13W (System Full-load)
LED Indicators:	
Power:	PowerStatus
Ethernet (Per Port):	Link/Active,Speed
SFP (Per Port):	Link/Active
Dimensions (WxDxH):	59x120.5x165mm
Weight:	0.9Kg
Casing:	MetalCase
Mounting Options:	DIN-Rail, Wall-mount bracket included
Power: Ethernet (Per Port): SFP (Per Port): Dimensions (WxDxH): Weight: Casing:	Link/Active, Speed Link/Active 59 x 120.5 x 165 mm 0.9Kg Metal Case

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power: 500V ESD:4kV/8kV







General

- Supports 10/100/1000Mbps-Full/Half-duplex, Autonegotiation, Auto MDI/MDI-X
- Supports external 100M SFP
- ► Supports 802.3x Flow Control
- 8K MAC address
- 1Mbits buffer memory
- 19" 1U Rack-mount
- AC power input
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 5-Year Warranty

Model	Description
ET22161-S	Unmanaged 16-port 100Base-FX SFP + 2-port 10/100/1000Base-T Optical Ethernet Switch
SFP Options	 (S) = SFP option. Please select your SFP on our SFP Option page. SFP module is to be purchased separately.
Mounting Options	■ 19" 1U Rack Mount.
Power Options	■ 100~240VAC input.



ET22161

Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u100BASE-TX/FX
	IEEE802.3ab 1000BASE-T
	IEEE802.3x Flow Control
Packet Buffer Memory:	1M bits
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Max. Packet Length:	1522Bytes
Address Table Size:	8K MAC Addresses
Connector:	2xRJ45(10/100/1000BASE-TX)
Optical Port:	16x100MSFPSlots

Environmental

Relative Humidity:	5% to 95% non-condensing
StorageTemperature:	-20°C to 75°C (-4°F to 167°F)
Operating Temperature:	0°C to 50°C (32°F to 122°F)

Electrical and Mechanical

Input Power:	100~240VAC, 50/60Hz
PowerConsumption:	210mA@220VAC
LED Indicators:	
Power:	PWR (Power Status)
Ethernet (Per Port):	Link/Activity,Speed
SFP (Per Port):	Link/Activity
Dimensions (WxDxH):	433x200x44mm
Weight:	1.7Kg
Casing:	MetalCase
Mounting Options:	RackMount

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power:500V ESD:2kV/4kV







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45



General

- 24 100BASE-FX SFP + 2 10/100/1000BASE-TX/SFP Combo
- RJ45 Port Supports 10/100/1000Mbps-Full/Halfduplex, Auto-negotiation, Auto MDI/MDI-X
- Supports external SFP
- ► Supports 802.3x Flow control
- Supports 8K MAC address
- ▶ 1M bits frame buffer memory
- 19" 1U Rack-mount
- AC Power input
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 5-Year Warranty

Model	Description
ET22241-S	Unmanaged 24-port 100Base-FX SFP + 2-port 10/100/1000Base-T/SFP Combo Optical Ethernet Switch
SFP Options	 (\$) = SFP option. Please select your SFP on our SFP Option page. SFP module is to be purchased separately.
Mounting Options	■ 19" 1U Rackmount.
Power Options	■ 100~240VAC power input.



ET22241

Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX/FX
	IEEE802.3ab1000BASE-T
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Memory:	1Mbit
Max. Packet Length:	1522 Bytes
Address Table Size:	8K MAC Addresses
Connector:	2xRJ45
Optical Port:	26xSFP

Environmental

Storage Temperature: Relative Humidity:

Operating Temperature: 0°C to 50°C (32°F to 122°F) -20°C to 75°C (-4°F to 167°F) 5% to 95% non-condensing

Electrical and Mechanical

Incut Rower	100, 240,000 50,000
Input Power:	100~240VDC, 50/60Hz
PowerConsumption:	Max. 10W (System no-load)
	Max. 24W (System Full-load)
LED Indicators:	
Power:	PowerStatus
Ethernet (PerPort):	Link/Active,Speed
SFP (PerPort):	Link/Active
Dimensions (WxDxH):	433 x 200 x 44 mm
Weight:	1.9Kg
Casing:	MetalCase
Mounting Options:	RackMount

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power: 500V ESD:2kV/4kV



OT Systems Ltd., Jan 2015 Due to continuous improvement, all product specifications are subject to change without further notice.



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General

- Supports Auto-Negotiation and Auto MDI/MDI-X
- ► Supports 802.3x Flow Control
- ► Fan-less design(no noise) for office environment
- Support Energy Efficient Ethernet IEEE 802.3az
- Plug and Play installation

Warranty

► 1-Year Warranty

Model	Description
EC-8200	Econ-line Unmanaged 8-port 10/100/1000Base-T Ethernet Switch
Power Options	 12VDC, 1.5A, Power Adaptor, DC Jack. Power Adaptor is included for all sales.

EC8200

Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u100BASE-TX
	IEEE802.3ab1000BASE-T
	IEEE802.3az Energy Efficient Ethernet
	IEEE802.3x Flow Control
Processing Type:	Store and forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Memory:	1Mbit
Connector:	8xRJ45
Address Table Size:	4K MAC Addresses

Environmental

Operating Temperature: 0°C to 40°C (32°F to 104°F) Storage Temperature: Relative Humidity:

-20°C to 70°C (-4°F to 158°F) 10% to 90% non-condensing

Electrical and Mechanical

Input Power:	12VDC, DC Socket
PowerConsumption:	1A, 12W(Max.)
LED Indicators:	
Power:	PowerStatus
Ethernet(PerPort):	Link, Activity
Dimensions (WxDxH):	158x111x26mm
Weight:	0.5Kg
Casing:	MetalCase
Mounting:	Desktop

Regulatory Approvals

ISO9001 FCC CE









General

- Supports Jumbo Frame up to 9K Bytes
- Ring Redundancy (recovery time < 20ms over 250 units, MSTP/RSTP/STP (IEEE 802.1s/w/D) for Ethernet Redundancy
- Supports ACLs, 802.1x User Authentication for Security
- Supports SNMP v1/v2c/v3, RMON & 802.1Q VLAN Network Management
- Supports DDM(Digital Diagnostic Monitoring) Function(P1~P8)
- Supports DOS/DDOS Auto Prevention
- IGMP v2/v3 (IGMP snooping support) for Filtering Multicast Traffic
- -10°C to 60°C (14°F to 140°F) operating temperature

Warranty

5-Year Warranty

Model	Description
ET8242M-S-DR	Industrial Managed 8-port 10/100/1000Base-T/SFP Combo + 4-port 1000Base-FX SFP Ethernet Switch
SFP Options	 (\$) = SFP option. Please select your SFP on our SFP Options page. SFP module is to be purchased separately.
Mounting Options	Default DIN-Rail Bracket installed, Wall Mount Bracket is included.
Power Options	 GS60A48 60W/1.25A 48VDC Power Supply. Open Wire for Terminal Block. Power Supply is to be purchased separately.

Specifications

Ethernet -

Emerner	
Standard:	IEEE802.3 for 10BASE-T
	IEEE802.3u 100BASE-TX/FX
	IEEE802.3z1000BASE-X
	IEEE802.3ab1000BASE-T
	IEEE802.3x Flow Control
	IEEE802.3ad for LACP
	IEEE802.1DSpanningTree
	IEEE802.1 p Class of Service
	IEEE802.1Q VLAN Tag
	IEEE802.1 w Rapid Spanning Tree
	IEEE802.1s Multiple Spanning Tree
	IEEE802.1xUserAuthentication
	IEEE802.1 ab Link Layer Discovery
ProcessingType:	Store-and-Forward
AddressTableSize:	8K MAC Addresses
Priority Queues:	4
Jumbo Frame:	Up to 9K bytes
Interface:	
10/100/1000Base-X:	8xRJ45
Gigabit Fiber:	4x1000BASE-XSFP Ports
RS-232 Console	1 x RJ45 (Console Cable Included)

Electrical and Mechanical

Input Power:	Dual 12~48VDC Redundant Input
Power Consumption:	22 Watts
Protection:	
Overload Current:	Present
Reverse Polarity:	Present on Terminal Block
LED Indicators:	
Power:	PowerStatus (PWR, PWR1, PWR2,
	Fault)
Systems:	Ring (Ring)
	Ring Master (R.M)
Ethernet(PerPort):	Link/Activity
SFP(PerPort):	Link/Activity
Dimensions (WxDxH):	96.4x108.5x154mm
Weight:	1.42Kg
Mounting Options:	IP30 Metal Case
	DIN-Rail/WallMountable

Software Features

Software Features:

- → STP/RSTP/MSTP (IEEE802.1D/w/s)
- → Redundant Ring with Recovery Time < 20ms over 250 Units
- ➔ TOS/Diffserv Supported
- → Quality of Service (802.1p) for Real-Time Traffic
- → VLAN (802.1Q) with VLAN Tagging and GVRP Supported
- → IGMP Snooping for Multicast Filtering
- → IP-Based Bandwidth Management
- → Application Based QoS Management
- → DOS/DDOS Auto Prevention
- → Port Configuration, Status, Statistics, Monitoring, Security
- → DHCPClient/Server

Security Features:

- → IP Police Security Feature
- → Enable/Disable Ports, MAC Based Port Security
- → Port Based Network Access Control (802.1x)
- → VLAN(802.1q) to Segregate and Secure Network Traffic
- → RADIUS Centralized Password Management
- → SNMP v3 Encrypted Authentication and Access Security

Environmental

Operating Temperature:	-10°C to 60°C (14°F to 140°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing

Regulatory Approvals

EMI	FCC Part 15, CISPR (EN55022) Class A
EMS	EN61000-4-2, EN61000-4-3,
	EN61000-4-4, EN41000-4-5,
	EN61000-4-6, EN61000-4-8
	EN61000-4-11
Stability Testing	Shock: IEC60068-2-27
	Free Fall: IEC60068-2-32
	Vibration: IEC60068-2-6





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Features

General

- ▶ 16100BASE-TX + 210/100/1000BASE-TX/SFP Combo
- RJ45 Port Supports 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
- Combo RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
- Supports external SFP
- ► Supports 802.3x Flow control
- ► Supports IGMP snooping V1/V2
- Supports 4K MAC address
- ▶ 2.75M bits frame buffer memory
- ▶ 19" 1U Rack-mount
- AC Power Inputs
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 5-Year Warranty

Description
Managed 16-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch
 (S) = SFP option. Please select your SFP on our SFP Option page. SFP module is to be purchased separately.
■ 19" 1U Rack-mount.
■ 100~240VAC Input.

ET16122M

Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u100BASE-TX
	IEEE802.3ab1000BASE-T
	IEEE802.3z1000BASE-X
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Memory:	2.75M bit
Max. Packet Length:	1536 Bytes
Address Table Size:	4K MAC Addresses
Connector:	18xRJ45
Optical Port:	2×SFP1000BASE-X

Environmental

Operating Temperature:	0°C to 50°C (32°F to 122°F)
Storage Temperature:	-20°C to 75°C (-4°F to 167°F)
Relative Humidity:	5% to 95% non-condensing

Electrical and Mechanical

Input Power:	100~240VAC 50/60Hz
PowerConsumption:	Max. 7W (System no-load)
	Max. 12W (System Full-load)
LED Indicators:	
Power:	PowerStatus
Ethernet (PerPort):	Link/Active, Speed
SFP (PerPort):	Link/Active
Dimensions (WxDxH):	433x345x44mm
Weight:	2.6Kg
Casing:	MetalCase
Mounting Options:	RackMount

Software Features

Management:	Web, CLI, SNMP
Port Configuration:	Port speed duplex mode selection,
	Bandwidth Control, Broadcast Storm
	Control
VLAN Setting:	32 tag based entries VLAN Groups,
	18 Port based VLAN Groups, MTU VLAN
QoS Setting:	Allows to assign low/high priority on
	each port, First-In-First-Out, All-High
	-before-Low, Weight-Round-Robin
	QoS Policy.
Security:	MAC Address, TCP & UDP Filter
SpanningTree:	STP, IEEE802.1D (Spanning Tree Protocol)
	RSTP, IEEE802.1w (Rapid Spanning Tree
	Protocol)
Trunking:	2group of 4-Port 10/100BASE-TX trunk
	support, up to 800Mbps bandwidth per
	trunk, 1 group of 2-Port
	10/100/1000Mbps trunk support,
	up to 2000Mbps bandwidth per trunk
DHCP:	DHCP Relay Agent, DHCP Server, VLAN
	Map Relay Agent
Miscellaneous:	Output Queue Aging Time, VLAN
	Striding, IGMP Snooping V1/V2

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power:500V ESD:2kV/4kV







General

- ► 24 100BASE-TX + 2 10/100/1000BASE-TX/SFP Combo
- RJ45 Port Supports 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
- Combo RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
- Supports external SFP
- ► Supports 802.3x Flow control
- ► Supports IGMP snooping V1/V2
- Supports 4K MAC address
- ▶ 2.75M bits frame buffer memory
- ▶ 19" 1U Rack-mount
- AC Power Inputs
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 5-Year Warranty

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Ordering	Information

Model	Description
ET24122M	Managed 24-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch
SFP Options	 (\$) = SFP option. Please select your SFP on our SFP Option page. SFP module is to be purchased separately.
Mounting Options	■ 19" 1U Rack-mount.
Power Options	■ 100~240VAC Input.



ET24122M

Specifications

Ethernet

IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX/FX
IEEE802.3ab1000BASE-T
IEEE802.3z1000BASE-X
Store-and-forward
14,880pps (10Mbps)
148,800pps (100Mbps)
1,488,000pps (1000Mbps)
2.75M bit
1536 Bytes
4K MAC Addresses
26 x R J 45
2×SFP1000BASE-X

Environmental

Relative Humidity:	5% to 95% non-condensing
StorageTemperature:	-20°C to 75°C (-4°F to 167°F)
Operating Temperature:	0°C to 50°C (32°F to 122°F)

Electrical and Mechanical

Input Power:	100~240VAC 50/60Hz
PowerConsumption:	Max. 7W (System no-load)
	Max. 15W (System Full-load)
LED Indicators:	
Power:	PowerStatus
Ethernet (PerPort):	Link/Active, Speed
SFP (PerPort):	Link/Active
Dimensions (WxDxH):	433x345x44mm
Weight:	2.6Kg
Casing:	MetalCase
Mounting Options:	RackMount

Sothware Features

Management:	Web, CLI, SNMP
Port Configuration:	Port speed duplex mode selection,
	Bandwidth Control, Broadcast Storm
	Control
VLAN Setting:	32 tag based entries VLAN Groups,
	26 Port based VLAN Groups, MTU VLAN
QoS Setting:	Allows to assign low/high priority on
	each port, First-In-First-Out, All-High
	-before-Low, Weight-Round-Robin
	QoS Policy.
Security:	MAC Address, TCP & UDP Filter
SpanningTree:	STP, IEEE802.1D (Spanning Tree Protocol)
	RSTP, IEEE802.1 w (Rapid Spanning Tree
	Protocol)
Trunking:	2 group of 4-Port 10/100BASE-TX trunk
	support, up to 800Mbps bandwidth per
	trunk, 1 group of 2-Port
	10/100/1000Mbps trunk support,
	up to 2000Mbps bandwidth per trunk
DHCP:	DHCP Relay Agent, DHCP Server, VLAN
	Map Relay Agent
Miscellaneous:	Output Queue Aging Time, VLAN
	Striding, IGMP Snooping V1/V2

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power:500V ESD:2kV/4kV





ET4111Pp Series Industrial Unmanaged 4-port 10/100Base-TX + 1-port 100Base-FX SFP Ethernet Switch with PoE+





Features

General

- Supports IEEE802.3at PoE+(30W per port)
- Supports external 100BASE SFP
- Supports Auto-Negotiation and Auto MDI/MDI-X
- ► Supports Store-and-Forward Transmission
- ► Support DIN -Rail & Wall-mount installation
- ▶ -10°C to 60°C (14°F to 140°F) operating temperature

Warranty

► 5-Year Warranty

Model	Description
ET4111Pp-S-DR	Industrial Unmanaged 4-port 10/100Base-TX + 1-port 100Base-FX SFP Ethernet Switch with PoE+
SFP Options Mounting Options	 (S) = SFP option. Please select your SFP on our SFP Option page. SFP module is to be purchased separately. Default DIN-Rail Bracket installed. Wall Mount Bracket is included.
Power Options	 DR-120-48 120W/2.5A DIN-Rail 48VDC Power Supply. Open Wire for Terminal Block. DRP-240-48 240W/5A DIN-Rail 48VDC Power Supply. Open Wire for Terminal Block. G\$120A48 120W/2.5A 48VDC Power Supply. Open wire for Terminal Block. G\$220A48 220W/4.6A 48VDC Power Supply. Open wire for Terminal Block. Power Supply is to be purchased separately.

ET4111Pp Series

Specifications

Ethernet

Standards:	IEEE802.3 10Base-T
	IEEE802.3u100Base-TX/FX
	IEEE802.3x Flow Control
	IEEE802.3afPoweroverEthernet
	IEEE802.3at Power over Ethernet
Packet Buffer Memory:	512K bits
Processing Type:	Store-and-forward
	Half-duplex back-pressure and
	IEEE802.3xFull-duplexflowcontrol
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
Cabling:	10BASE-T: Cat5 or above
	100BASE-TX: Cat5 or above
Maximum Distance:	Cat5UTP up to 100m
Connector:	4xRJ45
Address Table Size:	1024 MAC Addresses
Maximum Distance: Connector:	100BASE-TX: Cat5 or above Cat5 UTP up to 100m 4xRJ45

Environmental

Relative Humidity:	5% to 95% non-condensing
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Operating Temperature:	-10°C to 60°C (14°F to 140°F)

Electrical and Mechanical

Terminal Block) 7A@48VDC (PoEin use) @48VDC (PoEnot in use)
@48VDC (PoEnotinuse)
Port 4
Node
+): RJ45 Pin4, 5
C-):RJ45Pin7,8
or PSE
tatus)
PoE
9.5mm
-mount

Regulatory Approvals

ISO9001 FCC Part 15, Class A EN55022 Class A EN61000-4-5 (Surge Standards) RJ45: 1kV Power: 500V





ET8122PpH

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Hardened Unmanaged 8-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+



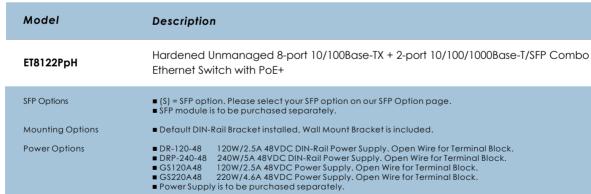
Features

General

- 8 10/100Base-TX + 2 10/100/1000Base-TX/SFP ► Combo with PoE+/PSE
- Supports IEEE802.3at PoE(30W per port) ►
- RJ45 Port Supports 10/100Mbps-Full/Half-duplex, ► Auto-Negotiation, Auto MDI/MDI-X
- Combo RJ45 Port Supports 10/100/1000Mbps-► Full/Half-duplex, Auto-Negotiation, Auto MDI/MDI-X
- ► Supports external SFP
- Supports 802.3x Flow control
- Support 8K MAC addresses ►
- ► 1M bits frame buffer memory
- Supports Relay output for Power and Port failure ►
- Supports DIN-Rail and Wall-mount installation ►
- **Redundant Power Inputs**
- Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

Warranty

5-Year Warranty



Ordering Information

PoE Switches

ET8122PpH

Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u100BASE-TX/FX
	IEEE802.3ab1000BASE-T
	IEEE802.3af/atPoweroverEthernet
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Memory:	1Mbit
Max Packet Length:	1522 Bytes
Address Table Size:	8K MAC Addresses
Connector:	10×RJ45
Optical Port:	2xSFP

Environmental

Relative Humidity:	5%-95% (non-condensing)
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Operating Temperature:	-40°C to 75°C (-40°F to 167°F)

Electrical and Mechanical

InputPower:	48~57VDC, Redundant Power
	(6-pin Terminal Block)
Power Consumption:	Max.7W (Systemno-load)
	Max. 13W (System Full-load)
LED Indicators:	
Power:	PowerStatus
Ethernet(PerPort):	Link/Active, Speed
SFP:	Link, Active
Dimensions (WxDxH):	59x120.5x165mm
Weight:	0.9Kg
Casing:	Metalcase
Mounting:	DIN-Rail/WallMount

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power:500V ESD:4kV/8kV

PoE Switches





ET16122Pp Unmanaged 16-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+



Features

General

- 16 10/100BASE-TX + 2 10/100/1000BASE-TX/SFP Combo with PoE+
- ► Supports IEEE802.3at PoE(30W per port)
- RJ45 Port Supports 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto MDI/MDI-X
- Combo RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-Negotiation, Auto MDI/MDI-X
- Supports external SFP
- ► Supports 802.3x Flow control
- Support 4K MAC addresses
- 2.75 M bits frame buffer memory
- 19" 1U Rack-mount
- AC Power Input
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 5-Year Warranty

Model	Description
ET16122Pp	Unmanaged 16-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
SFP Options	■ (S) = SFP option. Please select your SFP option on our SFP Option page.
Mounting Options Power Options	■ 19" 1U Rack-mount. ■ 100~240VAC Input.



ET16122Pp

Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3ab 1000Base-T
	IEEE802.3z 1000Base-X
	IEEE802.3at
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Memory:	2.75M bit
Max Packet Length:	1536 Bytes
Address Table Size:	4K MAC Addresses
Connector:	18xRJ45
Optical Port:	2xSFP1000BASE-X
-	

Environmental

Operating Temperature:	0°C to 50°C (32°F to 122°F)
StorageTemperature:	-20°C to 75°C (-4°F to 167°F)
Relative Humidity:	5%-95% (non-condensing)

Electrical and Mechanical

Input Power:	100~240VAC 50/60Hz
PowerConsumption:	Max. 7W (System no-load)
	Max. 12W (System Full-load)
PoE:	
Standard:	IEEE802.3at
Port:	RJ45Port1~Port16
PerPortPower:	30W (Alternative B Mode)
Max.PoEPower:	390W (16Portshare)
LED Indicators:	
Power:	PowerStatus
Ethernet(PerPort):	Link/Active,Speed
SFP:	Link, Active
Dimensions (WxDxH):	433 x 350 x 44 mm
Weight:	3.3Kg
Casing:	Metalcase
Mounting:	RackMount

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power:500V ESD:2kV/4kV







ET24122Pp Series

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Unmanaged 24-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+



Features

General

- 24 10/100Base-TX + 2 10/100/1000Base-TX/SFP Combo with PoE+
- RJ45 10/100Mbps-Full/Half-duplex, Auto negotiation, Auto MDI/MDIX
- Combo RJ45 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- Supports external SFP
- ► Supports 802.3x Flow control
- Supports 4K MAC address
- ▶ 2.75M bits frame buffer memory
- 19" 1U Rack-mount
- AC power input
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 5-Year Warranty

t Switch

Specifications

Ethernet

Standards:	IEEE802.3 10Base-T
	IEEE802.3u100Base-TX
	IEEE802.3ab1000Base-T
	IEEE802.3z1000Base-X
	IEEE802.3at
Packet Buffer Memory:	2.75Mbits
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Max. Packet Length:	1536Bytes
Address Table Size:	4K MAC Addresses
Connector:	26xRJ45
Optical Port:	2 x SFP 1000Base-X

Environmental

StorageTemperature: Relative Humidity:

Operating Temperature: 0°C to 50°C (32°F to 122°F) -20°C to 75°C (-4°F to 167°F) 5% to 95% non-condensing

Electrical and Mechanical

100~240VAC, 50/60Hz
Max 7W / System no-load
Max 15W / System Full-load
IEEE802.3at
RJ45Port1~Port24
AlternativeBMode
30W
390W (24 Port share)
Power Status
Link/Activity, Speed
Link/Activity
433 x 350 x 44 mm
3.4Kg
MetalCase
RackMount

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power: 500V ESD:2kV/4kV











General

- ► Supports IEEE802.3af PoE (15.4W per port)
- Supports Auto-Negotiation and Auto MDI/MDI-X
- Supports Store-and-Forward Transmission
- Supports overload protection and non-PoE device detection

Warranty

► 1-Year Warranty

Model	Description
EC9100P	Econ-line Unmanaged 8-port 10/100Base-TX (PoE) + 1-port 1000Base-T Ethernet Switch
Power Options	 48VDC, 2A External Power Adapter, DC Jack. Power Adapter is included in all sales.

EC9100P

Specifications

Ethernet

Standards:	IEEE802.310BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3ab1000BASE-T
	IEEE802.3x Flow Control
	IEEE802.3afPoweroverEthernet
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880ppps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Switch Fabric:	3.6Gbps
Cabling:	10BASE-T: Cat5 or above
	100BASE-TX: Cat5 or above
Maximum Distance:	Cat5UTPupto100m
Connector:	9 x RJ45 (P1~P8: PoE)

Environmental

Operating Temperature: 0°C to 40°C (32°F to 104°F) StorageTemperature: Relative Humidity:

-10°C to 70°C (14°F to 158°F) 10%-90% (non-condensing)

Electrical and Mechanical

Input Power:	48VDC, 2A, DC Socket
Power Consumption:	2A (max.)
PoE:	
Standard:	IEEE802.3af
Port:	RJ45Port1~Port8
Mode:	Alternative A Mode
	Positive (VCC+): RJ45Pin1,2
	Negative (VCC-):RJ45Pin3,6
Max. Power per port:	15.4W per Port
LED Indicators:	
Power:	PWR (Power Status)
10/100TX(PerPort):	Link, Activity, PoE Power Injected (P1-P8)
10/100/1000TX:	Link, Activity
Dimensions (WxDxH):	225 x 121 x 35 mm
Weight:	0.8Kg
Mounting:	Desktop

Regulatory Approvals

ISO9001 FCC CE











General

- ► Supports IEEE802.3af PoE (15.4W per port)
- Supports Auto-Negotiation and Auto MDI/MDI-X
- Supports Store-and-Forward Transmission
- Supports Power Saving Technology power down unused ports and when a connected device in standby mode

Warranty

1-Year Warranty

Model	Description
EC5100P	Econ-line Unmanaged 4-port 10/100Base-TX (PoE) + 1-port 100Base-TX Ethernet Switch
Power Options	 48VDC, 1.25A External Power Adapter, DC Jack. Power Adapter is included in all sales.

EC5100P

Specifications

Ethernet

Standards:	IEEE802.310BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3x Flow Control
	IEEE802.3afPoweroverEthernet
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
Switch Fabric:	1Gbps
Cabling:	10BASE-T: Cat5 or above
	100BASE-TX: Cat5 or above
Maximum Distance:	Cat5UTP up to 100m
Connector:	5xRJ45(P1~P4:PoE)

Environmental

Operating Temperature:	0°C to 45°C (32°F to 113°F)
StorageTemperature:	-20°C to 80°C (-4°F to 176°F)
Relative Humidity:	Max.90% (non-condensing)

Electrical and Mechanical

Input Power:	48VDC, 1.25A (max.), DC Socket
PowerConsumption:	8WMax. (Standby)
	48W Max. (PoEinuse)
PoE:	
Standard:	IEEE802.3af
Port:	RJ45Port1~Port4
Mode:	Alternative A Mode
	Positive (VCC+): RJ45Pin1,2
	Negative (VCC-): RJ45Pin3,6
Max.Powerperport:	15.4W per Port
LED Indicators:	
Power:	PWR (PowerStatus)
10/100TX(PerPort):	Link, Activity, PoEPowerInjected(P1-P4)
Dimensions (WxDxH):	140x91x28mm
Weight:	0.3Kg
Casing:	MetalCase
Mounting:	Desktop

Regulatory Approvals

ISO9001
FCC
CE





ET4222PpH Series

Hardened IP CCTV Self-Configured 4-port 10/100/1000Base-T + 2-port 1000Base-FX SFP Ethernet Switch with PoE+



Features

General

- Automatically support IGMP (Multicasting)
- Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDI-X
- Supports external 1000BASE SFP
- ► Supports Daisy-Chain connection
- ► Supports IEEE 802.3at PoE+(30W per port)
- ► Supports Light Hardware IGMP V1, V2, V3
- Supports Broadcast Storm Control
- ► Supports Relay output for power failure
- IM bits frame buffer memory
- Supports 9K Bytes Jumbo Frame
- ► Supports Energy Efficient Ethernet IEEE802.3az
- Redundant Power Inputs
- Supports Wall-mount and DIN-Rail installation
- Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature

Warranty

► 5-Year Warranty

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Model	Description	
ET4222PpH-S-DR	Hardened IP CCTV Self-Configured 4-port 10/100/1000Base-T + 2-port 1000Base-FX SFP Ethernet Switch with PoE+	
SFP Options	 (S) = SFP option. Please select your SFP option on our SFP Option page. SFP module is to be purchased separately. 	
Mounting Options	Default DIN-Rail Bracket installed, Wall Mount Bracket is included.	
Power Options	 DR-120-48 120W/2.5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block. DRP-240-48 240W/5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block. GS120A48 120W/2.5A 48VDC Power Supply. Open Wire for Terminal Block. GS220A48 220W/4.6A 48VDC Power Supply. Open Wire for Terminal Block. Power Supply is to be purchased separately. 	

Specifications

Ethernet

Standards:	IEEE802.310BASE-T
	IEEE802.3u 100BASE-TX/FX
	IEEE802.3ab 1000BASE-T
	IEEE802.3z1000BASE-X
	IEEE802.3afPoweroverEthernet
	IEEE802.3at Power over Ethernet
Forward & Filtering Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
PacketBufferMemory:	1 M bits
ProcessingType:	Store-and-Forward
MaxPacketLength:	9K Bytes Jumbo Frame
AddressTableSize:	2048 MAC Addresses
Connector:	4xRJ45
Optical Port:	2xSFP1000BASE-X

Electrical and Mechanical

Input Power:	2x48~57 VDC (Terminal Block)
PowerConsumption:	135W Max. 2.8A@48VDC (PoEinuse)
	5W Max.0.1A@48VDC (PoEnotinuse)
PoE:	
Standard:	IEEE802.3at
Port:	RJ45Port1~Port4
Max. Power per Port:	30W Max per port (Alternative B mode)
Protection:	
PowerInputOverload:	Automatic Resettable
Reverse Polarity:	Present
LED Indicators:	
Power:	PowerStatus
Ethernet(PerPort):	Link/Activity
SFP:	Link/Activity
Dimensions (WxDxH):	148x120x31mm
Weight:	0.5Kg
Casing:	Metal Case
Mounting Options:	DIN-Rail/WallMount

Environmental

Operating Temperature:	-40°C to 75°C (-40°F to 167°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing

Regulatory Approvals

ISO9001 EN55022 Class A, FCC part 15 Class A Surge Protection: RJ-45: 1kV Power: 500V





ET8122MPp

Industrial Managed 8-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+



Features

General

- ► 8 10/100Base-TX + 2 10/100/1000Base-TX/SFP Combo with PoE+/PSE
- ► Support IEEE802.3 at PoE(30W per port)
- RJ45 Port Supports 10/100Mbps-Full/Half-deplex, Auto-negotiation, Auto MDI/MDIX
- Combo RJ45 Port Supports 10/100/1000Mbps
 Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- Supports external SFP
- Supports 802.3x Flow control
- ► Supports IGMP snooping V1/V2
- Supports 4K MAC address
- IM bits frame buffer memory
- Supports Wall-mount and DIN-Rail installation
- Redundant Power Inputs
- ▶ -10°C to 60°C (14°F to 140°F) operating temperature

Warranty

5-Year Warranty

Model	Description
ET8122MPp	Industrial Managed 8-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
SFP Options	(S) = SFP option. Please select your SFP on our SFP Option page.
Mounting Options	Default DIN-Rail Bracket installed, Wall Mount Bracket is included.
Power Options	 DR-120-48 120W/2.5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block. DRP-240-48 240W/5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block. GS120A48 120W/2.5A 48VDC Power Supply. Open Wire for Terminal Block. GS220A48 220W/4.6A 48VDC Power Supply. Open Wire for Terminal Block. Power Supply is to be purchased separately.

Ordering Information

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Specifications

Ethernet

Standards:	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3ab1000BASE-T
	IEEE802.3z1000BASE-X
	IEEE802.3at
Processing Type:	Store-and-Forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Memory:	2.75 Mbits
Max. Packet Length:	1536 Bytes
Address Table Size:	4K MAC Addresses
Connector:	10xRJ45
Optical Port:	2xSFP1000BASE-X

Environmental

Operating Temperature: -10°C to 60°C (14°F to 140°F) Storage Temperature: Relative Humidity:

-40°C to 85°C (-4°F to 158°F) 5% to 95% non-condensing

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power: 500V ESD: 4kV/8kV

Electrical and Mechanical

Input Power:	48~57VDC, Redundant Power Input
	(6-pin Terminal Block)
Power Consumption:	48~57 VDC (2 x Terminal Block)
	8W Max. 0.17A@48VDC (PoE not in use)
PoE:	
Standard:	IEEE802.3at
Port:	RJ45Port1~Port8
Per Port Power:	30W (Alternative B Mode)
LED Indicators:	
Power:	PowerStatus
Ethernet(PerPort):	Link/Activity, Speed
SFP(PerPort):	Link/Activity
ALM:	Power or Port Fail
Dimensions (WxDxH):	59x120.5x165mm
Weight:	1.0Kg
Casing:	MetalCase
Mounting Options:	DIN-Rail/WallMount

Software Features

Management:	Web, CLI, SNMP
PoEManagement:	PoE Status, PoE Status,
	PoE Scheduling
Port Configuration:	Port speed deplex mode selection,
	Bandwidth, Broadcast Storm Control
VLAN Setting:	32 tag based entries VLAN Groups,
	10 Port based VLAN Groups, MTU VLAN
QoSSetting:	Allows to assign low/high priority on
	eachport, First-In-First-Out,All-High-
	before-Low, Weight-Round-Robin
	QoSpolicy
Security:	MAC Address, TCP & UDP Filter
Spanning Tree:	STP, IEEE802.1D (Spanning Tree
	Protocol)
	RSTP, IEEE802.1 w (Rapid Spanning
	Tree Protocol)
Trunking:	2 groups of 4-Port 10/100BASE-TX trunk
	support, up to 800Mbps bandwidth
	pertrunk
	1 group of 2-port 10/100/1000Mbps
	trunk support, up to 2000Mbps
	bandwidth per trunk
DHCP:	DHCP Relay Agent, DHCP Server,
	VLAN Map Relay Agent
Miscellaneous:	Output Queue Aging Time, VLAN
	Striding, IGMP Snooping V1 & V2





ET16122MPp

Managed16-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+



Features

General

- 16 10/100BASE-TX + 2 10/100/1000BASE-TX/SFP Combo with PoE+/PSE
- ► Supports IEEE802.3at PoE(30W per port)
- RJ45 Port Supports 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto MDI/MDI-X
- Combo RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-Negotiation, Auto MDI/MDI-X
- Supports external SFP
- ► Supports 802.3x Flow control
- ► Supports IGMP snooping V1/V2
- Support 4K MAC addresses
- ► 1M bits frame buffer memory
- 19" 1U Rack-mount
- AC Power Input
- ▶ 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

► 5-Year Warranty



Ordering Information

Model	Description
ET16122MPp	Managed16-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
SFP Options	 (S) = SFP option. Please select your SFP option on our SFP Option page. SFP module is to be purchased separately.
Mounting Options	■ 19" 1U Rack-mount.
Power Options	■ 100~240VAC Input.

Specifications

Ethernet

Optical Port:	2×SFP1000BASE-X
Connector:	18×RJ45
Address Table Size:	4K MAC Addresses
Max Packet Length:	1536 Bytes
Packet Buffer Memory:	2.75M bit
	1,488,000pps (1000Mbps)
	148,800pps (100Mbps)
Forward Filter Rate:	14,880pps (10Mbps)
Processing Type:	Store-and-forward
	IEEE802.3at
	IEEE802.3z 1000Base-X
	IEEE802.3ab 1000Base-T
	IEEE802.3u 100BASE-TX
Standards:	IEEE802.3 10BASE-T

Electrical and Mechanical

InputPower:	100~240VAC 50/60Hz
PowerConsumption:	Max.7W (Systemno-load)
	Max. 12W (System Full-load)
PoE:	
Standard:	IEEE802.3at
Port:	RJ45Port1~Port16
PerPortPower:	30W (Alternative B Mode)
Max.PoEPower:	390W (16Portshare)
LED Indicators:	
Power:	PowerStatus
Ethernet(PerPort):	Link/Active,Speed
SFP:	Link, Active
Dimensions (WxDxH):	433x345x44mm
Weight:	3.3Kg
Casing:	Metalcase
Mounting:	RackMount

Environmental

Operating Temperature:	0°C to 50°C (32°F to 122°F)
StorageTemperature:	-20°C to 75°C (-4°F to 167°F)
Relative Humidity:	5%-95% (non-condensing)

Software Features

Management:	Web, CLI, SNMP
PoEManagement:	PoEStatus, PoESetting, PoEScheduling
Port Configuration:	Port speed duplex mode selection,
	Bandwidth Control, Broadcast Storm
	Control
VLAN Setting:	32 tag based entries VLAN Groups,
	18 Port based VLAN Groups, MTU VLAN
QoS Setting:	Allows to assign low/high priority on
	each port, First-In-First-Out, All-High
	-before-Low, Weight-Round-Robin
	QoS Policy.
Security:	MAC Address, TCP & UDP Filter
Spanning Tree:	STP, IEEE802.1D (Spanning Tree Protocol)
	RSTP, IEEE802.1 w (Rapid Spanning Tree
	Protocol)
Trunking:	2 group of 4-Port 10/100BASE-TX trunk
	support, up to 800Mbps bandwidth per
	trunk, 1 group of 2-Port
	10/100/1000Mbps trunk support,
	up to 2000Mbps bandwidth per trunk
DHCP:	DHCP Relay Agent, DHCP Server, VLAN
	Map Relay Agent
Miscellaneous:	Output Queue Aging Time, VLAN
	Striding, IGMP Snooping V1/V2

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power:500V ESD:2kV/4kV



OT Systems Ltd., Jan 2015 Due to continuous improvement, all product specifications are subject to change without further notice.



ET24122MPp

Managed 24-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+



Features

General

- 24 10/100BASE-TX + 2 10/100/1000BASE-TX/SFP Combo with PoE+/PSE
- Supports IEEE802.3at PoE(30W per port)
- RJ45 Port Supports 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- Combo RJ45 Port Supports 10/100/1000Mbps Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- Supports external 1000M SFP
- ► Supports 802.3x Flow control
- Supports IGMP snooping V1/V2
- Supports 4K MAC address
- ▶ 2.75M bits frame buffer memory
- ▶ 19" 1U Rack-mount
- ► AC power input
- 0°C to 50°C (32°F to 122°F) operating temperature

Warranty

5-Year Warranty

Ordering Information

Model	Description
ET24122MPp	Managed 24-port 10/100Base-TX + 2-port 10/100/1000Base-T/SFP Combo Ethernet Switch with PoE+
SFP Options	 (S) = SFP option. Please select your SFP on our SFP Option page. SFP module is to be purchased separately.
Mounting Options	■ 19" 1U Rack Mount.
Power Options	■ 100~240VAC input.



Specifications

Ethernet

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Standards:	IEEE802.310Base-T
	IEEE802.3u 100Base-TX
	IEEE802.3ab1000Base-T
	IEEE802.3z1000Base-X
	IEEE802.3at
Packet Buffer Memory:	2.75Mbits
Processing Type:	Store-and-forward
Forward Filter Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Max. Packet Length:	1536 Bytes
Address Table Size:	4K MAC Addresses
Connector:	26xRJ45
Optical Port:	2xSFP1000BASE-X

Electrical and Mechanical

Input Power:	100~240VAC,50/60Hz
Power Consumption:	Max. 7W (System no-load)
	Max. 15W (System Full-load)
PoE:	
Standard:	IEEE802.3at
Port:	RJ45Port1~Port24
Mode:	Alternative B Mode
Max. PoE Power:	390W (24 Port share)
Per Port Power:	30W
LED Indicators:	
Power:	PowerStatus
Ethernet(PerPort):	Link/Activity,Speed
SFP(PerPort):	Link/Activity
Dimensions (WxDxH):	433x345x44mm
Weight:	3.4Kg
Casing:	MetalCase
Mounting Options:	RackMount
	Kackmoon

Environmental

Operating Temperature:	0°C to 50°C (32°F to 122°F)
Storage Temperature:	-20°C to 75°C (-4°F to 167°F)
Relative Humidity:	5% to 95% non-condensing

Software Features

Management:	Web, CLI, SNMP
PoEManagement:	PoEStatus, PoESetting, PoEScheduling
Port Configuration:	Port speed duplex mode selection,
	Bandwidth Control, Broadcast Storm
	Control
VLAN Setting:	32 tag based entries VLAN Groups,
	26 Port based VLAN Groups, MTU VLAN
QoS Setting:	Allows to assign low/high priority on
	each port, First-In-First-Out, All-High
	-before-Low, Weight-Round-Robin
	QoSPolicy.
Security:	MAC Address, TCP & UDP Filter
SpanningTree:	STP, IEEE802.1D (Spanning Tree Protocol)
	RSTP, IEEE802.1w (Rapid Spanning Tree
	Protocol)
Trunking:	2 group of 4-Port 10/100BASE-TX trunk
	support, up to 800Mbps bandwidth per
	trunk, 1 group of 2-Port
	10/100/1000Mbps trunk support,
	up to 2000Mbps bandwidth per trunk
DHCP:	DHCP Relay Agent, DHCP Server, VLAN
	Map Relay Agent
Miscellaneous:	Output Queue Aging Time, VLAN
1111500110110005.	

Regulatory Approvals

ISO9001 EN55022:2006+A1:2007 Class A Surge Protection: RJ45:1kV Power: 500V ESD: 2kV/4kV



OT Systems Ltd., Jan 2015 Due to continuous improvement, all product specifications are subject to change without further notice.



ET-INJ30 Series Hardened Gigabit 1-port Ethernet Input + 1-port PoE+ Output Injector





Features

General

- 1 RJ45 Ethernet Data Input Port + 1 RJ45 Power Over Ethernet Output Port(Data + Power)
- Support IEEE802.3at Power over Ethernet(PoE+)
 Power Sourcing Equipment
- Support 10/100/1000Base-TX
- Support DIN-Rail & Wall-mount installation.
- Extensive LED indications for PoE diagnostics
- Environmentally Hardened -40°C to 75°C (-40°F to 167°F) operating temperature

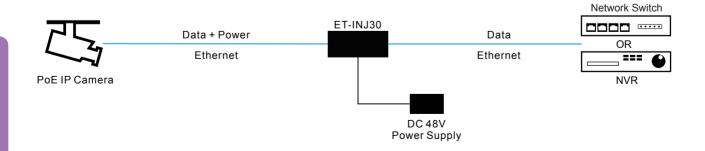
Warranty

5-Year Warranty

Ordering Information

Model	Description
ET-INJ30	Hardened Gigabit 1-port Ethernet Input + 1-port PoE+ Output Injector
Mounting Options Power Options	 Default DIN-Rail Bracket installed, Wall Mount Bracket is included. GS60A48 60W/1.25A 48VDC Power Supply. Open Wire for Terminal Block. Power Supply is to be purchased separately.

Typical Application



ET-INJ30 Series

Specifications

Ethernet

Standards:	IEEE802.3af/atPoweroverEthernet
Processing Type:	Forward
	Half-duplex, Full duplex
Forward Filter Rate:	1,488,000pps (1000Mbps)
Cabling:	1000BASE-TX: Cat5 or above
Maximum Distance:	Cat5UTP up to 100m
Connector:	2xRJ45

Environmental

Operating Temperature: Storage Temperature: Relative Humidity:

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Electrical and Mechanical

Input Power:	48~57VDC (Terminal Block)
PowerConsumption:	35W Max.
PoE:	
Standard:	IEEE802.3at
Port:	RJ45
Max. Power:	30W Maxperport(Alternative B Mode)
LED Indicators:	
Power:	PowerStatus
PoE:	PoEStatus
Dimensions (WxDxH):	95x70x30mm
Weight:	0.2kg
Casing:	Matelcase
Mounting Options:	DIN-Rail/WallMount

Regulatory Approvals

ISO9001 FCC Part 15 Class A EN55022:2006 + A1:2007 class A Surge Protection: RJ45:1kV Power:500V ESD:4kV/8kV





OT Systems Ltd., Jan 2015 Due to continuous improvement, all product specifications are subject to change without further notice.

UTS

ET-SPT12V Series Hardened Gigabit 1-port PoE+ In + 1-port Ethernet Data Out PoE Splitter



Features

General

- 1 RJ45 PoE PSE Input Port(Data + Power) + 1 RJ45
 Ethernet Data Output Port(Data only).
- Support IEEE802.3at Power over Ethernet(PoE+)
 Power Sourcing Equipment
- ► Support 10/100/1000Base-TX
- Support DIN-Rail & Wall-mount installation.
- Extensive LED indications for PoE diagnostics
- Environmentally Hardened -40°C to 75°C (-40°F to 167°F) operating temperature

Warranty

► 5-Year Warranty

Ordering Information

Model	Description
ET-SPT12V	Hardened Gigabit 1-port PoE+ In + 1-port Ethernet Data Out PoE Splitter
Mounting Options Power Options	 Default DIN-Rail Bracket installed, Wall Mount Bracket is included. 20W/12VDC output with 2-pin open wire terminal block.

Typical Application





ET-SPT12V Series

Specifications

Ethernet

Maximum Distance: Connector:	Cat5UTPupto100m 2xR145
Cabling:	1000BASE-TX: Cat5 or above
Forward Filter Rate:	1,488,000pps (1000Mbps)
	Half-duplex, Full duplex
ProcessingType:	Forward
Standards:	IEEE802.3af/atPoweroverEthernet

Environmental

Operating Temperature: Storage Temperature: Relative Humidity:

-40°C to 75°C (-40°F to 167°F)
-40°C to 85°C (-40°F to 185°F)
0% to 95% non-condensing

Electrical and Mechanical

Output Power:	20W/12VDC (Terminal Block)
Power Consumption:	25W Max.
LED Indicators:	
PoEln:	PoEPSEPowerIn
12V:	DC 12V Output
Dimensions (WxDxH):	95x70x30mm
Weight:	0.25kg
Casing:	Matelcase
Mounting Options:	DIN-Rail/WallMount

Regulatory Approvals

ISO9001 FCC Part 15 Class A EN55022:2006 + A1:2007 class A Surge Protection: RJ45:1kV Power:500V ESD:4kV/8kV



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General

- Dedicated for Microtype products from various products series
- Mount in standard 19" cabinets, occupying ► 10 height
- Power supply provided
- Hot-swappable design
- Environmentally hardened -40°C to 75°C (-40°F to 167°F) operating temperature
- Compatible with NHD100Micro, NHD110DRMicro, ► FTD100Micro, FTD110DBMicro, ET1111, ET1111H, ET1212H and ET1100C Series

Warranty

► 2-Year Warranty

Ordering Information

Model	Description
MR-C10	19" Rack for Micro-type Products

Specifications

Electrical and Mechanical

InputPower:	110~240VAC, 50/60Hz
Output Power:	40W Max. 3.34A@12VDC
Protections:	Short circuit, Overload, Over Voltage
Dimension (WxDxH):	483x135x44mm
Weight:	0.7Kg
Mounting:	19" Rack, 1U Height

Environmental

,	0
Relative Humidity:	0% to 95% non-condensing
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Operating Temperature:	-40°C to 75°C (-40°F tp 167°F)

UTS



OT Systems Ltd., Jan 2015

Due to continuous improvement, all product specifications are subject to change without further notice.





Features

General

- Supports up to 12 ET Series Card Modules
- ► For ET2111 Series Card Module
- Plug-and-Play / Hot-swappable
- 19" 3U Rack Mount

Ordering Information

Model	Description
ET-C12	12-slot 19" Rack Mount Chassis for ET Series

Specifications

Electrical and <i>I</i>	Mechanical	
Power (ET-PSU/5V):		
Input:	110VAC/60Hz	
	220VAC/50Hz	
Output:	5VDC	
	Max.Current:25A	
No. of Empty Slots:	12	
Dimension (WxDxH):	486x191x134mm	
Weight:	3.1Kg	
Mounting:	19" Rack, 3U Height	

Environmental

Operating Temperature:	-20°C to 60°C (-4°F tp 140°F)
StorageTemperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	0% to 95% non-condensing





CON



Features

General

- Support up to 14 EC Series Module
- ► For EC1111 and EC1212 Series
- Plug-and-Play / Hot-swappable
- 19" Rack Mount

Warranty

► 1-Year Warranty

Ordering Information

Model	Description
EC-C14	19" Rack Mount Chassis for EC1111 and EC1212 series units, 2U, 14 empty slots, with PSU, 110-220VAC input

Specifications

Electrical and Mechanical					
Power:					
Input:	100-240VAC,50/60Hz				
	Maximum Current: 1.2A				
Output:	5VDC				
	Maximum Current: 12A				
No. of Empty Slots:	14				
Dimension (WxDxH):	490x230x90mm				
Weight:	3.5Kg				
Mounting:	19" Rack, 2U Height				

Environmental

Operating Temperature:	-10°C to 55°C (-14°F to 131°F)
StorageTemperature:	-40°C to 70°C (-40°F to 158°F)
Relative Humidity:	5% to 95% non-condensing





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Due to continuous improvement, all product specifications are subject to change without further notice.

SFP Options

SFP Ordering Options

Model	Description	Wavelength	Max. Distance
SMFP3131-03-225F	100M / Multimode / 2-fiber / LC	1310nm	2km
SSFP3131-13-225F	100M / Singlemode / 2-fiber / LC	1310nm	20km
SIFP3131-13-225S	100M / Multimode / WDM 1-fiber / LC	TX:1310nm/RX:1550nm	2km
SIFP5131-13-225S	100M / Multimode / WDM 1-fiber / LC	TX:1550nm/RX:1310nm	2km
SWFP3131-13-225S	100M / Singlemode / WDM 1-fiber / LC	TX:1310nm/RX:1550nm	20km
SWFP5131-13-225S	100M / Singlemode / WDM 1-fiber / LC	TX:1550nm/RX:1310nm	20km
SMFP3151-13-225F	1G/Multimode/2-fiber/LC	1310nm	1km
SSFP3151-13-225F	1G/Singlemode/2-fiber/LC	1310nm	20km
SIFP3151-13-225S	1G/Multimode/WDM1-fiber/LC	TX:1310nm/RX:1550nm	550m
SIFP5251-13-225S	1G/Multimode/WDM1-fiber/LC	TX:1550nm/RX:1310nm	550m
SWFP3151-13-225S	1G/Singlemode/WDM1-fiber/LC	TX:1310nm/RX:1550nm	20km
SWFP5251-13-225S	1G/Singlemode/WDM 1-fiber/LC	TX:1550nm/RX:1310nm	20km

Remarks

■ Operating Temperature: -40°C~75°C(-40°F~167°F)

NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network. (2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth.





Warranty & RMA Policy

OT Systems Industrial Ethernet & Networking Products Warranty

- 1. Warrantee. OT Systems (herein "Seller") guarantees the integrity of the products sold to buyers or original End Users (herein "Buyers") as a whole in regards of the usages and applications as stipulated in the product manuals.
 - a) Seller warrantees that all finished products manufactured under the brand name of OT Systems shall be free from defects in material and workmanship right upon the ex-factory date and the products shall conform to the Seller's specifications as published.
 - b) Ethernet & Networking products sold to Buyers are under a 5-YEAR warranty offered by Seller while EC1111, EC1212, EC5100P, EC9100P, EC8200 and all other Accessories are under a 1-YEAR warranty offered by Seller, subject to the exclusion from liability in the occurrence of misuse, abuse or improper handling, vandalism, or any acts in contravention of the instructions, rules, or guidelines as stipulated in the product manuals.
 - C) Defective products claimed for warranty will, at the discretion of Seller, be repaired or replaced in part or in whole. All repaired parts or replacements, are under warranty for the remaining period of the original warranty period.
 - d) In case that the defects cannot be rectified under the reasonable efforts of Seller, as subject to the availability of all possible resources, Seller is open to negotiation to reach for an equitable solution with the concerned parties.
- 2. Call for Service. To call for warrantee service, first contact Seller's Customer Service Representative. A Return Merchandise Authorization number (RMA#) will be issued if the returning of the product is deemed necessary. All claims must be in written form with all the particulars which are self-evident to support such claim.
- 3. Cost incurred. All freight charges for return shipments of parts or products are at Buyer's costs.
- 4. Exclusion. The aforesaid warrantees are exclusive and in lieu of and supersede all other warrantees as appropriate whether written, verbal, implied or statutory. No other implied or statutory warrantee of merchantability or fitness for particular purposes shall apply.

OT Systems RMA Policy

- RMA (Return Merchandise Authorization) Policy
 Should you experience any defects with our products, please complete a RMA request form on our website http://ot-systems.com/online_rma.php or send E-mail to techsupport@ot-systems.com to request RMA form prior to returning the products.
- 2. Copy of Purchase Order/Proforma Invoice should be enclosed with the returning RMA request form.
- 3. An RMA number will be given to you. This RMA number must accompany the product returned to OT systems.

The RMA number should be displayed on the outside of the returning packaging. All returned products without an RMA number will be sent back to the buyer.

- 4. The purchaser is to bear all delivery charges to the returning products.
- 5. RMA numbers are valid for 30 days. A new RMA number must be applied if this RMA 30-days period expires.
- 6. All in-warranty defective items must have an RMA number and repairs are free of charge.
- 7. All out-of-warranty items to be repaired must have an RMA number. Charges will be applied and invoice with chargeable items, will be issued to the buyer.



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