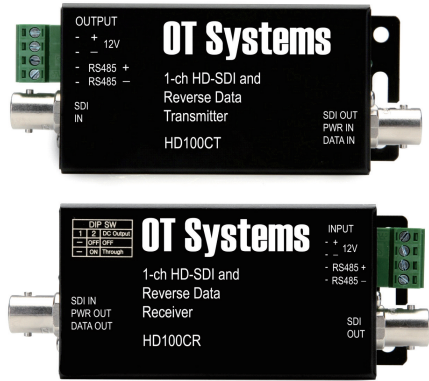


# HD100C Series

1-ch HD-SDI Signal Extender Over Coaxial Cable



HD-SDI Transmission

## Features

### Video

- ▶ Non-compressed HD-SDI or SD-SDI signal transmission
- ▶ Support SMPTE 292M, 372M and 424M standards
- ▶ Support data rate up to 2.97Gbps
- ▶ Support resolution 720p50/60, 1080i50/60, 1080p50/60

### Data and Power

- ▶ Support RS-485 reverse (from RX to Tx) specifications
- ▶ Support Power-over-coax
- ▶ Maximum 6W power supplied to camera from transmitter

### Coaxial Cable

- ▶ HD/SD-SDI, Power and Data transmission on one Coaxial design
- ▶ Maximum transmission distance 200m (1.485G), 120m(2.97G)

### Robust Design

- ▶ Plug-and-Play design, no in-field adjustments required
- ▶ Built-in surge protection
- ▶ Operating temperature range of -10°C to +50°C

### Local and remote diagnostics

- ▶ Service-friendly LED status indicators on front of the module

### Warranty

- ▶ One year Warranty

## Description

The HD100CT and HD100CR HD signal extender supports transmission of non-compressed HD-SDI or SD-SDI signal, power and data through one coaxial cable. Capable of transmitting full HD signal up to 120m, it retains excellent video quality. It offers maximum flexibility and easy installation by carrying RS485 data and supplying max. 6W power to HD-SDI camera.

## Typical Application



## Specifications

### Video

Number of Channels	1
Format	SD-SDI, HD-SDI
Data Rate	2.97Gbps (maximum)
Standard	SMPTE 292M, 372M and 424M
Max Resolution	720p50/60, 1080i50/60, 1080p50/60
I/O Impedance	75 Ohm
Transmission Distance	
Belden 1694A	120m
RG-6	200m

### Data

Number of Channels	1
Data Direction	Reverse (from RX to TX)
Data Interface	RS485 (2-wire)
Baudrate	2400/4800/9600/19200/38400 bps

### Power

Input/Output power (HD100CR)	48V DC
Output power (HD100CT)	12VDC@6W

### LED

Power	Yellow/On
SDI Signal Indication (Presence)	Green

### Connectors

SDI Input / Output	BNC-F
Data Input / Output	2-pin (out of 4-pin) screw terminal Block
Power	2-pin (out of 4-pin) screw terminal Block

### Electrical and Mechanical

Power Consumption (TX)	48VDC @25mA
Power Consumption (RX)	48VDC @8mA
Dimensions(WxHxD)	76x 44 x 25mm(Max)
Shipping Weight	~0.1kg

### Environmental

Operating Temp	-10 °C to +50 °C
Relative Humidity	0 to 80% non-condensing

## Ordering Information

Part Number	Description	Maximum Distance Full HD Belden 1694A (m)	Maximum Distance HD RG-6 (m)
<b>HD100CT</b>	1 - Ch HD-SDI Signal Extender Over Coaxial Cable Transmitter	120	200
<b>HD100CR</b>	1 - Ch HD-SDI Signal Extender Over Coaxial Cable Receiver	120	200

Power Adaptor      ▪ Power adaptor is included.

Notes:      ▪ Power adaptor is manufactured by third party and is supplied with fitted screw - terminal output cables.  
 ▪ Please feel free to consult factory for any special requirement and customization.

