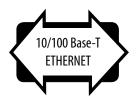




One Channel 10Base-T Ethernet / 100Base-T Fast Ethernet Data Transceiver Compatible with Samsung SNV-8084N Dome Network Camera



#### **FEATURES:**

- 10/100 Base-T Ethernet Auto-negotiation
- Full Duplex or Half-duplex Supported
- IEEE 802.3 Compliant
- User Selectable MDI/MDI-X
- Environmentally Hardened for Wide Temperature Applications
- NTCIP Compatible
- Far End Fault Function
- · Link Fault Pass-through Function
- Laser Based Systems for Multimode & Singlemode
- Laser Back-Biased Photo Detector Circuitry for Stable
  Optical Output Over Full Temp. Range
- FC, ST Optical Connectors
- Distances Up To 50km
- Wide Optical Dynamic Range
- Supports Single Fiber Communications
- 12VDC & 24VAC Operation

#### **DESCRIPTION:**

The AXB-1R-x is an Ethernet transceiver designed for bidirectional transmission of 10Base-T Ethernet / 100Base-T Fast Ethernet data over one multimode or singlemode fiber. Since the data rate is auto-negotiated, no internal adjustments or setting are necessary.

Distances of 50km can be obtained using singlemode fiber. Designed to mount directly inside the housing of the Samsung SNV-8084N IP camera, the AXB-1R-x is environmentally hardened and will operate over the standard NEMA TS-2 temperature range.

Board, module and card mounted LEDs indicate power, link speed, activity, laser current and optical signal. Standard shielded RJ-45 connectors are provided for Cat. 5 compliance. Optical connector options include ST and FC.

## **RECEIVER COMPATIBILIY:**

This transmitter is compatible with the following receivers:

SXA -1R-x	1-ch. 10/100Base-T Fast Ethernet Card
MXA -1R-x	1-ch. 10/100Base-T Fast Ethernet Module

## **MARKETS:**

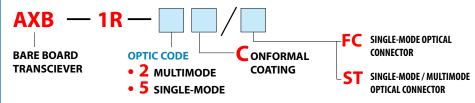
- √ Intelligent transportation systems (ITS)
- √ Datacom
- √ Security and surveillance
- √ Access control

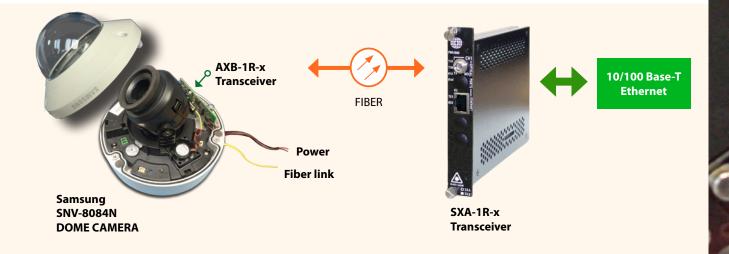
## **SPECIFICATIONS:**

Data						
Formats		IEEE 802.3 CSMA/CD IEEE 802.3i 10Base-T IEEE 802.3u 100Base-T				
Voltage/Impedance		10/100 Mb/s				
Bandwidth		Better than 10 <sup>-9</sup>				
0pti	cal					
Fibe	r Data Rate	125 Mb/s				
Indicators						
1	Rx Optic	Normal - OFF Optical Signal Absent - ON (Red)				
1	Tx Error	Normal - OFF Laser Driver Error - ON (Red)				
1	Rx Data	Data Activity Output (Green)				
1	Tx Data	Data Activity Input (Green)				
1	Rx 100	100Base-T Data Output (Green)				
1	Rx 10	10Base-T Data Output (Green)				
1	Tx 100	100Base-T Data Input (Green)				
1	Tx 10	10Base-T Data Input (Green)				

Connectors					
Ethernet	RJ45 (shielded)				
Optical	ST - Multimode, FC - Single-mode				
Power	2-pin Screw Blocks				
Power					
Input Power	12VDC / 24VAC				
Power Consumption	1.5 W				
Physical					
Dimensions	83(W) x 37 (H) x 20 (D) mm ( 3.27 x 1.46 x 0.8 inch)				
Weight	35 gms (0.48 lb)				
Environmental					
Operating Temperature	-40°C to +74°C				
Storage Temperature	-55°C to +85°C				
Relative Humidity	0 to 95% Non-condensing				
Quality					
МТВГ	>125,000 hours @ Ground Fix 35°C per MIL217F				







# **OPTICAL:**

Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
2	Multimode (Laser) 62.5 / 125	-5	-25	20	1300 / 850	ST	24	0.8
5	Singlemode (FP Laser) 9 / 125	-5	-25	20	1310 / 1550	FC, ST	24	50

ver. 07/2015 C