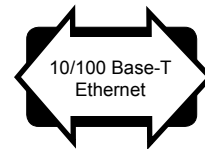


**One Channel 10Base-T Ethernet / 100Base-T
Fast Ethernet Data Transceiver-
Compatible with Panasonic
WV-NW502S Dome Camera**



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 Standard, SC Optional
- Distances Up To 50km
- Wide Optical Dynamic Range
- Supports Single Fiber Communications
- 12VDC & 24VAC Operation

DESCRIPTION:

The BXB-1R-x is an Ethernet transceiver designed for bi-directional 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. The BXB-1R-x is environmentally hardened and will operate over the standard NEMA TS-2 temperature range - and is designed to fit inside the housing of the Panasonic WV-NW502S IP camera. LEDs on the associated rack card 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, FC and SC.

RECEIVER COMPATIBILITY:

This transmitter is compatible with the following receivers:

SXA -1R-x	1 channel 10Base-T Ethernet /100Base-T Fast Ethernet card
MXA -1R-x	1 channel 10Base-T Ethernet /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
Data Rate	10/100 Mb/s
Bit Error Rate	Better than 10 ⁻⁹

Optical

Fiber Data Rate	125 Mb/s
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Connectors

Ethernet	RJ45 (shielded)
Optical	ST, FC, SC
Power (module)	2 Pin Screw Block

Power **

Bare Transmitter Board	
12VDC or 24VAC	1.5 Watts

Physical

Dimensions	70 mm (2.75") L, 35 mm (1.38") W
	20mm (0.80") W
Weight	35 gms (1.24 Oz)

Enviromental

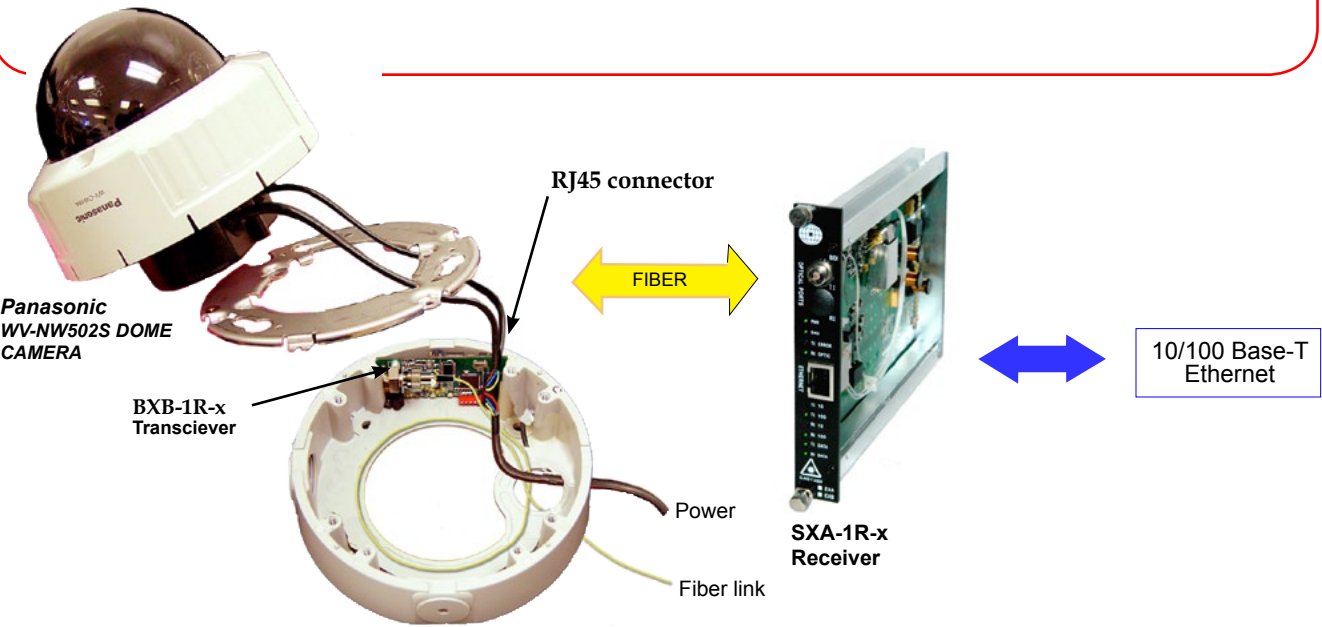
Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Quality

MTBF	>125,000 hours @ Ground Fix
	35°C per MIL217F

Part Numbers:

BXB	—	1R	—		—		—	
BARE BOARD TRANSCIEVER				MULTIMODE - 2 SINGLEMODE - 5		C CONFORMAL - COATING		ST MULTIMODE - CONNECTOR FC / ST SINGLEMODE - CONNECTOR



OPTICAL:

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