ET1111SDH Series

Hardened Microtype 100Base-TX to 100Base-FX Ethernet Media Converter with 1-ch Serial Data

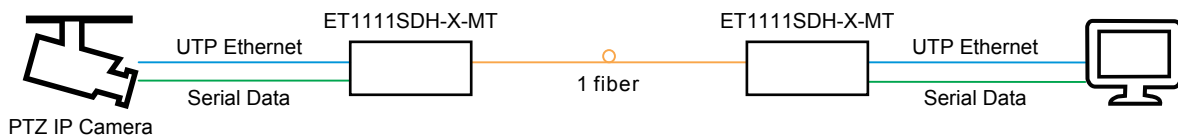## Features

► Converts 100Base-TX to 100Base-FX
► Support 100Base-TX Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
► Single mode or Multi-mode fiber operation
► Single or Dual-core fiber with SC, ST or FC connectors
► MDI/MDIX Auto-crossover supported
► Meet EIA RS-232/422/485 specifications
► Full RS-485 Tri-state support
► Transparent to data encoding
► Sleek Microtype design, fits within most camera housings
► Plug-and-play
► Environmentally hardened
  -40ºC to 75ºC (-40ºF to 167ºF) operating temperature

Warranty
► 5-Year Warranty

Typical Application

PTZ IP Camera — UTP Ethernet / Serial Data — ET1111SDH-X-MT — 1 fiber — ET1111SDH-X-MT — UTP Ethernet / Serial Data

Specifications

Ethernet

Standards	IEEE802.3u 100Base-TX/FX
	IEEE802.3x Flow Control
Processing Type	Forward
Forward Filter Rate	148,800pps (100Mbps)
Cabling	Cat5 or above
Maximum Distance	100m
Connector	1 x RJ45

Serial Data

Number of Channels	1
Data Direction	Bi-directional
Data Interface	RS232, RS422, RS485 2 or 4-wire Tri-state
Selection Method	DIP Switch-selectable
Data Rate	0~115.2 kbps
Data Format	MPD (Manchester, Bi-phase, etc)
Connector	7-pin screw terminal

Optical

Optical	62.5/125µm (Multimode)
	9/125µm (Singlemode)
Maximum Distance	2Km (Multimode)
	20Km (Singlemode)
Wavelength	1310/1550nm (1-fiber)
Connector	SC/ST

Electrical and Mechanical

Input Power	12VDC (Terminal Block)
Power Consumption	2.4W Max. 0.2A@ 12VDC

Specifications

Protection	
Reverse Polarity	Present
LED Indicators	
Power	Power Status
100TX (Per Port)	LINK/Activity, Speed
100FX (Per Port)	LINK/Activity
Serial Data	Data In/Out
Dimensions (W x D x H)	36.2 × 101 × 35 mm
Weight	0.25 Kg
Casing	Aluminum case
Mounting Options	Wall Mount / MR-C10 1U Rack

Environmental

Operation 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
MTBF	> 100,000 hrs

Regulatory Approvals

ISO9001

FCC Part 15, Class A

EN55022 Class A

Ordering Information

Available Model	Description
ET1111SDH-X-MT	Hardened Microtype 100Base-TX to 100Base-FX Ethernet Media Converter with 1-ch Serial Data

(X) =	Fiber Options	Wavelengths	Link Budget	Max. Distance
C	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
I	Multimode/WDM 1-fiber/ST	TX:1310nm/RX:1550nm	21dB	2km
J	Multimode/WDM 1-fiber/ST	TX:1550nm/RX:1310nm	21dB	2km
K	Singlemode/WDM 1-fiber/ST	TX:1310nm/RX:1550nm	19dB	20km
L	Singlemode/WDM 1-fiber/ST	TX:1550nm/RX:1310nm	19dB	20km

Optional Accessories (to be purchased separately)	
MR-C10	1U 19 inch Rack for microtype product mountable up to 10 slots, includes 12V power adapter

Package Checklist

- Fast Ethernet Media Converter — x 1
- 1.25A 12VDC power adapter with open wire for terminal block — x 1
- Quick Installation Guide — x 1

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.