

# 10/100Base-TX Industrial Ethernet Extender

065-1138

## OVERVIEW

The 065-1138 is a point-to-point Ethernet Extender that efficiently extends 10/100 Ethernet circuits to over 300meters (984feet) at 50Mbps using existing straight pair copper wire. The 065-1138 will allow Ethernet connectivity in existing facilities without pulling extra cable. This is the perfect solution to Ethernet on the factory floor where systems have been upgraded from slower serial communications to Ethernet networking. Installation is easy with a single switch setting, one end is set for local and the other remote. The 065-1138 is used in pairs to extend Ethernet connectivity over existing voice grade copper wire.



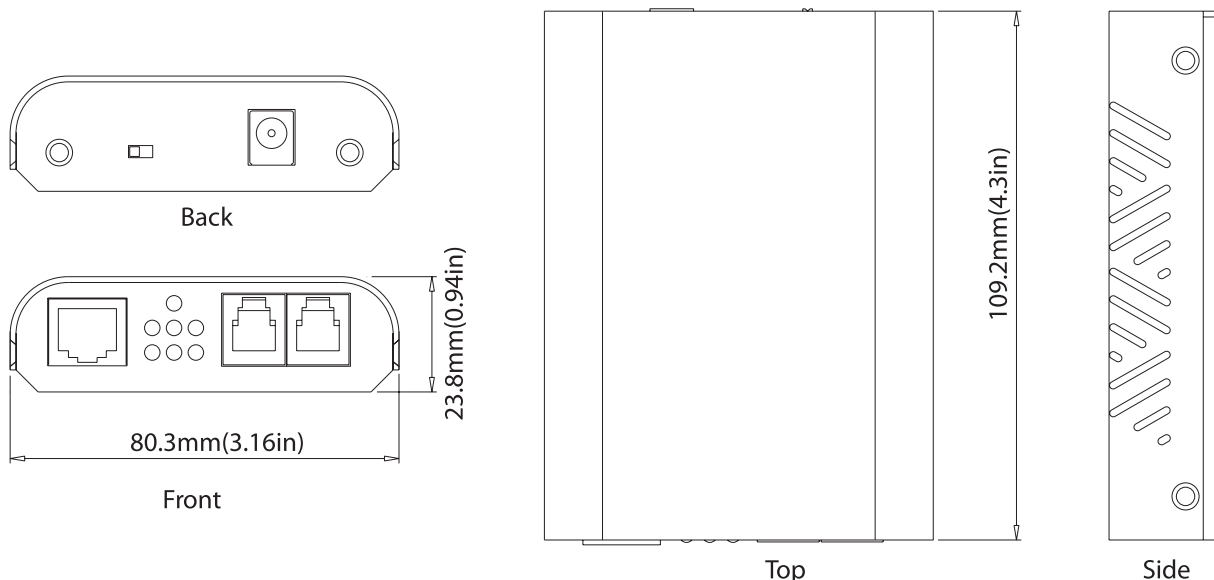
## FEATURES

- Operates transparent to higher layer protocols such as TCP/IP
- Ethernet Port: 10/100Mbps-Full/Half-duplex, Auto-Negotiation,
- Auto-MDI/MDIX
- Ethernet Extender(RJ-11) Port: Symmetrical on the VDSL, High-speed Full-duplex 50Mbps communications link over existing copper Telephone line
- Support DIP switch to select Local or Remote side
- Ten speeds with speed indicator LEDs on top of unit,
- Up to 50Mbps @ about 300meters (984ft.),
- Down to 1Mbps @ about 1,900meters (6,232ft.)
- -20°C to 60°C (-4°F to 140°F) operating temperature range
- Hardened aluminum case
- Supports DIN-Rail, Wall Mounting installation

## ORDERING INFORMATION

065-1138 10/100Base-TX Industrial Ethernet Extender

## DIAGRAMS



## SPECIFICATIONS

### Technology

- Standards: IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3x, Ethernet over VDSL
- Protocols: Transparent to higher layer protocols
- Processing Type: Half-duplex back-pressure and IEEE802.3x Full-duplex flow control

### Power

- Input: Input Voltage: 12VDC
- Power Consumption: 2.4W Max. 0.2A@12VDC

### Mechanical

- Casing: Aluminum case
- Dimensions: 80.3mm (W) x 109.2mm (D) x 23.8mm (H) (3.16" (W) x 4.30" (D) x 0.94" (H))
- Weight: 150g (0.33lb.)
- Installation: DIN-Rail, Wall Mounting

### Interface

- Ethernet Port:**  
Port: One RJ-45 port, 10/100Base-TX Full/Half-duplex Auto-Negotiation, Auto-MDI/MDIX  
Speed: 10/100Mbps  
Distance: 100meters (328ft.)  
Cable: 10Base-T: UTP CAT. 3, 4, 5 (2-pair wire)  
100Base-TX: UTP CAT. 5 (2-pair wire)
- Ethernet Extender Port:**  
Port: One RJ-11 Port  
Speed: 1/3/5/10/15/20/25/30/40/50mbps  
Distance: 1900meters (6,232ft.)  
Cable: Telephone line 24 AWG (0.5mm diameter, 1-pair wire) or larger
- DIP switch:**  
One DIP switch: Local (CO) or Remote (CPE)

### LED Indicators:

- Per Unit: Power Status (Power)
- Per Port: 10/100TX: Link/Activity, Full-duplex  
Line: Error, Link, Local, Remote

LED		SPEED	DISTANCE
1	Green	1Mbps	1,900m (6,232 ft.)
	Amber	3Mbps	1,800m (5,904 ft.)
2	Green	5Mbps	1,600m (5,249 ft.)
	Amber	10Mbps	1,400m (4,593 ft.)
3	Green	15Mbps	1,200m (3,936 ft.)
	Amber	20Mbps	1,000m (3,280 ft.)
4	Green	25Mbps	800m (2,624 ft.)
	Amber	30Mbps	700m (2,296 ft.)
4&2	Amber	40Mbps	600m (1,968 ft.)
4&3	Amber	50Mbps	300m ( 984 ft.)

NOTE: All speed selections are Symmetrical on the DSL and Full-duplex on the Ethernet.

### Environment

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

### Regulatory Approvals

- ISO: Manufactured in an ISO9001 facility
- Safety: UL60950-1
- Emission Compliance: FCC Part 15 CE Mark Class A

