

iCON-32310 Series

10/100Base-TX Industrial Ethernet Extender over Copper Wire with DIN-rail Mounting Kits and Power Adaptor (-20°C ~ +60°C)



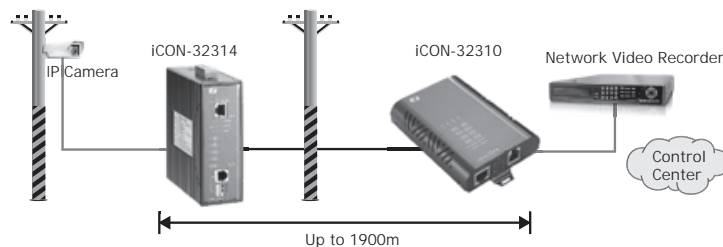
Features

- Ethernet extender (RJ-11) port: Symmetrical on the VDSL, high-speed full-duplex 50Mbps communications link over existing copper telephone line
- Ethernet port: 10/100Mbps-full/half-duplex, Auto-negotiation, Auto-MDI/MDIX
- -20°C to +60°C (-4°F to +140°F) operating temperature range
- Supports DIP switch to select local or remote site
- Supports DIN-rail and wall mounting installation

Introduction

The iCON-32310 series is the point-to-point Ethernet extender that efficiently extends 10/100 Ethernet circuits to over 300 meters (984 feet) at 50Mbps using existing straight pair copper wire. This series allows Ethernet connectivity in existing facilities without pulling extra cable. It is the perfect solution to Ethernet on the factory floor where systems have been upgraded from slower

serial communications to Ethernet networking. The installation is easy with a single switch setting which one end is set for local and the other remote. The iCON-32310 series is used in pairs to extend Ethernet connectivity over existing voice grade copper wire.



Specifications

Technology		Interface	
Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3x, Ethernet over VDSL	Ethernet Port	Port: one RJ-45 port, 10/100Base-TX full/half-duplex auto-negotiation, auto-MDI/MDIX Speed: 10/100Mbps Distance: 100 meters (328 feet) Cable: 10Base-T: UTP Cat 3, 4, 5 (2-pair wire) 100Base-TX: UTP Cat 5 (2-pair wire)
Protocols	Transparent to higher layer protocols	Ethernet Extender Port	Port: One RJ-11 Port Speed: 1/3/5/10/15/20/25/30/40/50Mbps Distance: 1900 meters (6,232 feet) Cable: telephone line 24 AWG (0.5mm diameter, 1-pair wire) or larger
Processing Type	Half-duplex back-pressure and IEEE802.3x full-duplex flow control		
Power			
Input	Input voltage: 12VDC		
Power	2.4W max. 0.2A@12VDC		
Consumption			
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	150 g (0.33 lb)		
Installation	DIN-rail, wall mounting		

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																																								
	<table border="1"> <thead> <tr> <th></th> <th>LED</th> <th>Speed</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td>Green</td> <td>1Mbps</td> <td>1,900m (6,232 ft.)</td> </tr> <tr> <td>Amber</td> <td>3Mbps</td> <td>1,800m (5,904 ft.)</td> </tr> <tr> <td rowspan="2">2</td> <td>Green</td> <td>5Mbps</td> <td>1,600m (5,249 ft.)</td> </tr> <tr> <td>Amber</td> <td>10Mbps</td> <td>1,400m (4,593 ft.)</td> </tr> <tr> <td rowspan="2">3</td> <td>Green</td> <td>15Mbps</td> <td>1,200m (3,936 ft.)</td> </tr> <tr> <td>Amber</td> <td>20Mbps</td> <td>1,000m (3,280 ft.)</td> </tr> <tr> <td rowspan="2">4</td> <td>Green</td> <td>25Mbps</td> <td>800m (2,624 ft.)</td> </tr> <tr> <td>Amber</td> <td>30Mbps</td> <td>700m (2,296 ft.)</td> </tr> <tr> <td>4&2</td> <td>Amber</td> <td>40Mbps</td> <td>600m (1,968 ft.)</td> </tr> <tr> <td>4&3</td> <td>Amber</td> <td>50Mbps</td> <td>300m (984 ft.)</td> </tr> </tbody> </table>		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.)
	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.)																																						
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	UL 60950-1																																								
EMI	FCC part 15, class A EN61000-6-3 * EN55022 * EN61000-3-2 * EN61000-3-3																																								
EMS	EN61000-6-2 EN61000-4-2 (ESD standards) * Contact: + / - 4KV; criteria B * Air: + / - 8KV; criteria B EN61000-4-3 (radiated RFI standards) * 10V/m, 80 to 1000MHz; 80% AM criteria A EN61000-4-4 (burst standards) * Signal ports: + / - 4KV; criteria B * D.C. power ports: + / - 4KV; criteria B * A.C. power ports: + / - 4KV; criteria B																																								

	EN61000-4-5 (surge standards) * Signal ports: + / - 1KV; Line-to-Line; criteria B * D.C. power ports: + / - 0.5KV; Line-to-earth; criteria B * A.C. power ports: + / - 2KV; Line-to-earth; Criteria B EN61000-4-6 (Induced RFI Standards) * Signal ports: 10Vrms @ 0.15-80MHz; 80% AM criteria A * D.C. power ports: 10Vrms @ 0.15-80MHz; 80% AM criteria A * A.C. power ports: 10Vrms @ 0.15-80MHz; 80% AM criteria A EN61000-4-8 (magnetic field standards) * 30A/m @ 50, 60Hz; criteria A EN61000-4-11 (voltage dip standards) * A.C. power ports: 30% reduction for 0.5 period; criteria B
Environmental Test Compliance	IEC60068-2-6 Fc (vibration resistance) * 5g @ 10-150KHz, amplitude 0.35mm (operation/storage/transport) IEC60068-2-27 Ea (shock) * 25g @ 11ms (half-sine shock pulse; operation) * 50g @ 11ms (half-sine shock pulse; storage/transport) IEC60068-2-32 Ed (free fall) * 1M (3.281ft.)

Ordering Information

iCON-32310-D-A	10/100Base-TX industrial Ethernet extender with DIN rail mounting kits and power adaptor for Australia (-20°C ~ +60°C)
iCON-32310-D-E	10/100Base-TX industrial Ethernet extender with DIN rail mounting kits and power adaptor for Europe (-20°C ~ +60°C)
iCON-32310-D-J	10/100Base-TX industrial Ethernet extender with DIN rail mounting kits & power adaptor for Japan (-20°C ~ +60°C)
iCON-32310-D-K	10/100Base-TX industrial Ethernet extender with DIN rail mounting kits & power adaptor for UK (-20°C ~ +60°C)
iCON-32310-D-U	10/100Base-TX industrial Ethernet extender with DIN rail mounting kits & power adaptor for USA (-20°C ~ +60°C)

Dimensions

