

OUTDOOR 1 PORT GATORLINK



A fiber/copper media
converter and PoE injector



**Fiber
Connections Inc.**
Innovate | Design | Deliver

OUTDOOR 1 PORT GATORLINK



TAKE PoE ANYWHERE



Our hybrid copper/fiber cabling system will extend that distance up to 5000 meters.

The outdoor GatorLink is a fiber/copper media converter and PoE injector in a unique, IP67 rated package. The device can be installed in almost any environment and does not require the use of additional NEMA enclosures for protection. All connections to and from the device are made with rugged pre-terminated ODVA style connectors that make installation a breeze. Standard Ethernet cables can only carry PoE up to 90 meters from the source. Our hybrid copper/fiber cabling system can extend that distance up to 5000 meters. The cable can come pre-terminated on one or both ends depending on the preference of the installer.

KEY FEATURES

- 100base FX, LX and 1000base SX & LX fiber port options
- 10/100/1000base TX copper ports
- PoE (15w), PoE+ (30w) and PoE++ (60w) power sourcing equipment (PSE) capabilities
- no need to purchase separate NEMA enclosures, cable grips, etc.
- uses revolutionary new IP67 rated connector for both fiber/power connectivity
- connection to your PoE device is made using standard category cable with IP67rated RJ45
- -40°C to +70°C operating temperature
- discreet profile and adaptable design that allows for installation almost anywhere

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ALL IN ONE FIBER/COPPER CONNECTION!

The Outdoor GatorLink uses a revolutionary new connector to bring both fiber (data) and copper (power) into the device. The connector is based on the industry standard ODVA LC connector footprint except it now has the added functionality of being able to transmit power when terminated on hybrid (fiber/copper) cable. Fiber Connections offers a full line of hybrid cables to complement the Outdoor GatorLink. Refer to our Hybrid Cable Assembly data sheet for additional information about these assemblies.



The maximum cable length limits are determined by considering the following.

The max length of fiber based on both the fiber type and Ethernet speed (see figure 2 below), AND
 The max length of copper required based on the wire gauge and power levels (see figure 1 below)
 After consulting both tables, always select the lowest value specified between the two.

POWER DISTANCE LIMITS				
Configuration	P/Ns (x variable = fiber comm type, y variable = fiber type shown below)	Max cable distance (m) using 4x12awg	Max cable distance (m) using 2x12awg	Max cable distance (m) using 2x18awg
1 port PoE (tri spd)	GR10xPSyC0S-001	7500	3750	950
1 port poE+ (tri spd)	GR10xPPyC0S-001	2500	1250	300
1 port PoE++ (tri spd)	GR10xPHyC0S-001	1300	650	155

Figure 1

FIBER DISTANCE LIMITS		
Comm protocol	Fiber Type	Distance (m)
100BaseFx = variable F	50/125 OM3 = variable 9	2000
100BaseFx = variable F	50/125 OM4 = variable A	2000
100BaseLx = variable G	SM OS2 = variable S	5000
1000Base Sx = variable B	50/125 OM3 = variable 9	550
1000Base Sx = variable B	50/125 OM4 = variable A	1100
1000Base Lx = variable C	SM OS2 = variable S	5000

Figure 2

ORDERING INFORMATION AND TECHNICAL SPECIFICATIONS

GR10 - COS-001

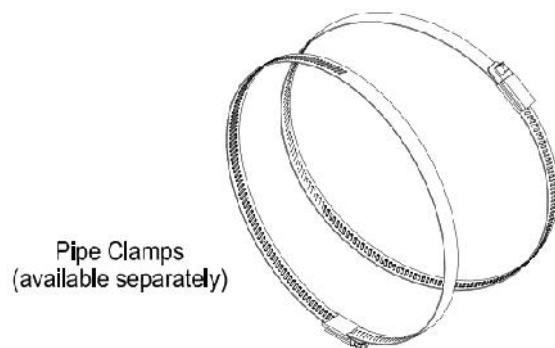
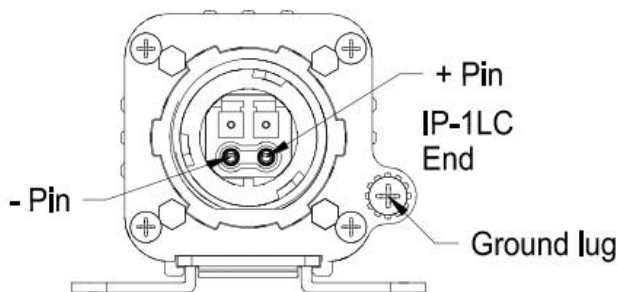
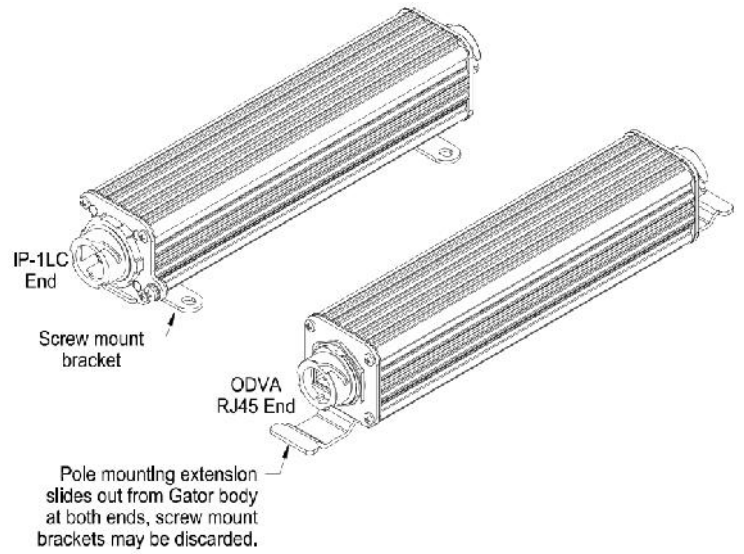
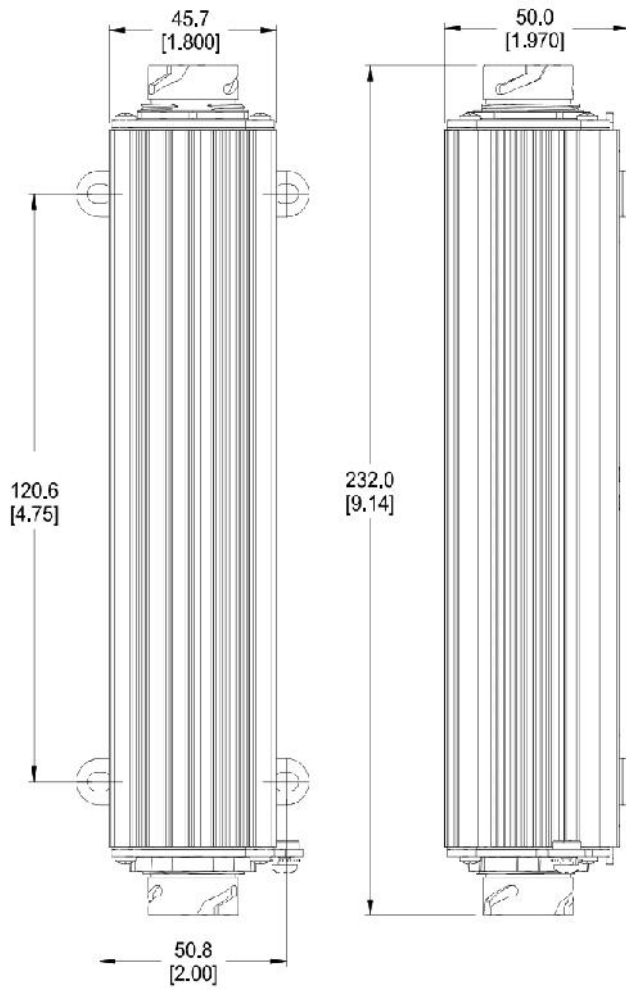
Communication	
B	10/100/1000T & 1000BaseSX
C	10/100/1000T & 1000BaseLX
F	10/100/1000T & 100BaseFX
G	10/100/1000T & 100BaseLX

Power Out	
PS	Remote:PoE 15w / Source:20w Term. Blk.
PP	Remote:PoE+ 30w / Source:65w for P0E+ & PoE++
PH	Remote:PoE++ 60w / Source:NA
00	None

Communication	
9	50/125 OM3
A	50/125 OM4
S	SM OS2

Standards	Ethernet IEEE Std. 802.3i/u/ab/z, Power Over Ethernet IEEE 802.3at	
Controls	No manual controls	
Housing	Material: ABS/Aluminum housing. Interfaces: Fiber and low voltage DC power enters the housing on the end face via hybrid outdoor connector. PoE enabled output Ethernet port is on the opposite end face in an ODVA style outdoor connector. Size: 2" diameter cylindrical body with mounting provisions on each end. Total length 10".	
Power Source	Requires 42 to 57VDC DC, PoE+ Model - 40 watts, PoE++ Model -80 watts on 2 conductor outdoor shrouded connector	
Channels	1 media conversion channel using 2 incoming fibers in outdoor hybrid connector and 1 outdoor ODVA RJ45 Jack.	
	Primary Fiber Optic Port	LC duplex in outdoor shrouded connector
	Pass Through Fiber Port	none
	Fiber Type	OM1, OM2/OM3/OM4 or SM as defined by model P/N
	Wavelength	1300nm or 850nm (1G), 1310nm(SM)as defined by model P/N
	Fiber Tx/Rx Speed	100Mb/s or 1Gb/s as defined by model P/N
	Mode	Full Duplex
	Distance	Link length limited by Fiber transmission limit and DC Power transmission Limits: Fiber length Limit: -100BaseFX, 1300nm, OM3 -up to 2 km - 100BaseLX, 1310nm, OS2 -up to 5 km -1000Base SX, 850nm, OM3 -up to 550m -1000BaseLX, 1310nm, OS2 -up to 5km as defined by model P/N Consult factory for length limitations of particular composite cable selected.
	Optical Loss Budget	MM: 10 to 15dB depending on configuration SM: 16 to 29dB depending on configuration as defined by model P/N
	Copper Port	8P8C (RJ-45) Modular Socket outdoor shrouded bayonet
	Copper Rx/Tx Speed	10/100/1000Mb/s auto negotiated
	Mode	Half duplex or full duplex auto negotiated
	Distance	100M (330 ft) cat 5/6
	POE	50-57VDC, PSE output upon PD negotiation, over current protection (802.3at). Provides up to 30W output on 2 copper pairs (Mode B Midspan)of the RJ45, optionally PoE++ Model provides up to 60 watts output on 4 copper pairs (Mode A & B simultaneous).
	RX/TX Cross-over	Auto MDI, MDIx configuration
Indicators	none	
Weight	0.5kg	
Temperature	Operating: -40C to +70C Storage: -40 to 85 degrees C	
Environment	Outdoor	
Compliance	Safety:Power Supply IEC/UL 60950-1. Radiation: CFR FCC Part 15 Subpart B. Lightning /Surge: IEC61000-4-5	
Special	V Booster	Maintain valid PoE output (V>50V) with Vin as low as 42VDC
	Lightning Surge	4 stage surge suppression to meet industry spec. IEC61000-4-5
	Suppression	
	Configurations	a) Fiber Link: 100BaseFX or LX, or 1000BaseSX or LX PoE Injection: PoE, PoE+ or PoE++

SCHEMATICS



INSTALLATION

