

2 PORT SWITCH GATORLINK



The ultimate media conversion and PoE extension terminal

The 2 Port Switch GatorLink is a fiber/copper Ethernet media converter and PoE injector that has 2 RJ45 ports in a compact package. It is designed to be used as a stand alone media converter and/or a PoE injector within an optical network. It can also be used as a component of our Chameleon System to extend PoE to multiple devices thousands of meters from the head end of your system using a single cable for both power and data. GatorLinks can be configured with almost any possible combination of port count, communication speed, fiber type and PoE output. All of this makes the GatorLink an ideal product for any media conversion and/or PoE extension project.

KEY FEATURES

- 100base FX, LX or 1000base SX, LX fiber port options by using appropriate SFP modules
- 10/100/1000base TX copper ports
- 2 SFP ports
- 2 PoE enabled RJ45 ports in a compact footprint
- All four ports (2x SFP and 2x RJ45 ports) are linked as a switch.
- PoE levels up to 90W (802.3bt)*

- use as a stand alone device or with hybrid cabling from the head end of your system
- connection to your PoE device is made using standard category cables
- -40°C to +70°C operating temperature for remote units
- Built in 4kV surge protection

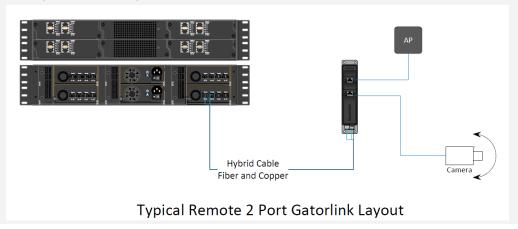
*total power (90W) is shared between both ports.



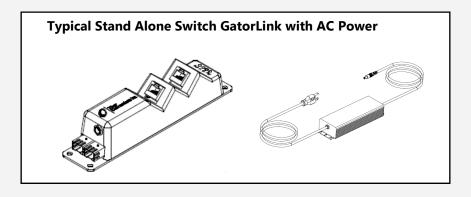
Easy 2 Port Switch Media Conversion & PoE Extension

Remote Switch GatorLinks provide you with the ability to deliver PoE connectivity to small clusters of up to 2 PoE enabled devices anywhere within 100 meters of the GatorLink. See below for "Remote" and "Stand-Alone"

Remote Switch GatorLinks draw their power directly from the head end of a system, typically via a hybrid (fiber/copper) cable. Separate dedicated fiber and power cables can also be used if preferred. Power can be distributed to the GatorLink from the head end through our Power Patch Panel system or, use your own 56Vdc power supply. This scenario gives you the ability to centrally power and backup all of the PoE devices in your network. It's a particularly effective way to deliver PoE to locations where local power may not be readily available.



Stand Alone Switch GatorLinks operate in a similar manner to Remote units except, they come with their own dedicated power supply which is used to provide power to the GatorLink using local power. These devices can be placed anywhere that local power is accessible.





ORDERING INFORMATION & TECHNICAL SPECIFICATIONS

Step 1: Select your GatorLink

Step 2: Select SFP's for your GatorLink

Part Number	Description	Part Number	Description
CD20VDDVEOD 001 SW/	Remote 2xSFP + 2xRJ45 Ports Switch GatorLink (SFP's	SFP13728LCMM100	Multimode 100BaseFX LC SFP
GRZUTPBTEUB-UU1-3W		SFP13728LCMM1000	Multimode 1000BaseSX LC SFP
GA20YPBYENB-001-	Stand Alone 2xSFP + 2xRJ45 Ports Switch GatorLink	SFP13728LCSM100	Single mode 100BaseLX LC SFP
Add suff	 ïx −DN to part number for DIN	SFP13728LCSM1000	Single mode 1000BaseLX LC SFP

rail clip to be installed at factory.

Switch Remote GatorLink Hybrid Cable

Maximum composite cable limits are determined by considering:

- the max length of fiber based on fiber type and Ethernet speed, AND
- the max length of copper required based on wire gauge and power levels whichever is less.

Distances in table below do NOT include the length of Ethernet cord. With Ethernet cord included, distances could be extended up to an additional 100 meters.

		Cable with 4X 12awg conductors				Cable with 2X 16awg conductors	
		Max	Max	Max	Max	Max	Max
		distance if Ethernet	distance if Ethernet	distance if Ethernet	distance if Ethernet	distance if Ethernet	distance if Ethernet
		cord is <20	cord is 100	cord is <20	cord is 100	cord is <20	cord is 100
		meters	meters	meters	meters	meters	meters
Remote Switch GatorLink Remote Switch Ga-		Distance	Distance	Distance	Distance	Distance	Distance
Configuration	torLink Part Numbers	Meters	Meters	Meters	Meters	Meters	Meters
2 PoE		2670	2400	4920	4550	720	640
(2x15w loads)		3670	3100	1830	1550	720	610
2 PoE+		1550	4240	770	250	200	260
(2 x 30w load)	d)		1340	770	350	300	260
1 PoE+ & 1 PoE++	GR20YPBYE0B-001-SW	070	•	222		400	•
(1x30 & 1x60w load)		670	0	330	0	130	0
1 PoEbt & 1 no-PoE		4000	200	540	400	040	40
(1x90w & 1x2w load)		1080	200	540	100	210	40

Fiber Distance Limits	Comm	Fiber	Distance
	Protocol	Туре	(m)
	100BaseFx	50/125 OM3	2000
Standard based fiber	100BaseFx	50/125 OM4	2000
Standard based fiber max distances	100BaseLx	SM	5000
(Meters)	1000Base Sx	50/125 OM3	550
(Weters)	1000Base Sx	50/125 OM4	1100
	1000Base Lx	SM	5000

Note that all power delivered to the Remote Switch GatorLink (typically less than 100W) must be shared between the 2 ports. Higher wattage power sources may be used at the customers discretion.



ORDERING INFORMATION & TECHNICAL SPECIFICATIONS

Standard	s	Ethernet IEEE Std. 802.3i/u/ab/z, Power Over Ethernet IEEE 802.3 af/at/bt				
Controls		Automatic operation				
Housing		ABS/Acrylic plastic stepped shell mounted to a metal base plate. Primary fiber and low voltage DC power enters the device on the end face and copper ports are mounted on the step face. Size is 8.25" x 1.74" x 1.7"				
Power So	ource	Remote configurations require 56VDC power through an M8 power connector. Stand Alone configurations are supplied with an external 100W 56VDC AC power supply. Each GatorLink draws at least 2 watts of power per Ethernet port for media conversion plus whatever power is required to support the devices that are connected to it.				
	Primary Fiber Optic Port	2 x SFP: LC duplex				
	Fiber Type	62.5/125 (OM1), 50/125um (OM2/OM3/OM4) or Single Mode				
Fiber	Wavelength	MM 850nm or 1300nm, Singlemode 1310nm				
Optic	Fiber Tx/Rx Speed	100Mb/s or 1Gb/s				
Ports	Mode	Full Duplex				
	Distance (fiber only)	MM:100mb/s-2 km 1gb/s-600m or SM(1310nm):5km				
	Optical Loss Budget	MM: 100mb/s 10-15dB 1Gb/s 6-8dB SM: 16 to 29dB depending on configuration				
	Copper Port Interconnection	2 x 8P8C (RJ-45) Modular Socket connectors				
	Copper Rx/Tx Speed	10/100/1000 BaseT				
Copper	Mode	Half/full duplex auto negotiated				
Ports	Distance	100M (330 ft) cat 5/6				
	POE	44-57VDC(PoE) 50-57VDC(PoE+/PoE bt type 3) 52-57VDC(PoE bt type 4)				
	RX/TX Cross-over	Auto MDI, MDIx configuration				
Indicators	5	Power on: LED on Fiber Link/Activity: LED on/flash Copper Link/Activity: LED on/flash PoE Active: LED on Refer to installation guide for detailed LED indicator breakdown				
Weight		2 Port Configurations: 3.5-5 lbs depending on model				
Temperature		-40 to +70 Celsius *power supply for Stand Alone units is rated for 0 to +40 Celsius				
Environment		0 -90% non-condensing humidity, 0-10,000 ft altitude				
Compliance		Safety: ANSI/UL 60950-1 when supplied with a class 2 power source. Radiation: CFR FCC Part 15 Subpart B				

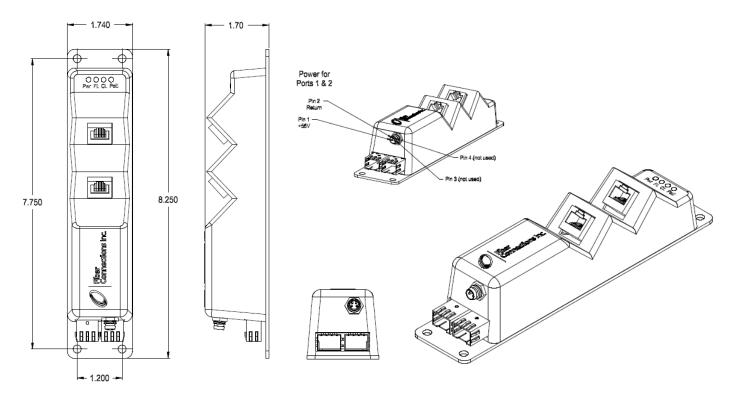
2 Port GatorLinks are UL listed and class 2 compliant when used as part of the Chameleon System.





SCHEMATICS

2 Port Remote SFP Switch GatorLink GR20YPBYE0B-001-SW



2 Port Stand Alone SFP Switch GatorLink GA20YPBYENB-001-SW

