

GIGABIT ETHERNET EXTENDER
OUTREACH[®]
LITE G



Application | Extension of gigabit Ethernet in a shopping malls and public places



Universal Ethernet network range extender

OUTREACH Lite G offers an easy way to double your gigabit network cable range without having to install power cables to an intermediate switch.

- | Instantly doubles gigabit network range to 200 metres
- | No local power required
- | Full unrestricted gigabit network bandwidth
- | Universal 10/100/1000 compatibility
- | POE powered device
- | Integrated mounting holes



Application | OUTREACH Lite G extends Ethernet range in retail malls and shopping outlets.

OUTREACH Lite G delivers gigabit Ethernet at twice the normal distance

Simply connect an OUTREACH Lite G in line with the network cable and instantly double network range to 200 metres (656 ft).

Gigabit Ethernet is commonly used for Local Area Network (LAN) installations, although 100Base-TX is often used for single IP camera connections. As IP devices become more diverse, many applications demand network connections that exceed the maximum 100 metres (328 feet) distance limit for cabled Ethernet.

OUTREACH Lite G provides an instant solution to this restriction for gigabit Ethernet connections (a 100Base-TX only version of OUTREACH Lite is also available - see table on next page).

Simply connect an OUTREACH Lite G in the middle of a network cable run to double the available range to 200 metres (656 feet).

Simple installation

OUTREACH Lite G takes advantage of the universal 802.3af/at/bt POE standards, so it can draw its own power from the network connection. No local power is required, therefore

OUTREACH Lite G can be located exactly where it is needed.

If your network switch has POE, simply connect OUTREACH Lite G up to 100 metres from the switch, and it will deliver another 100 metres reach over regular Cat5e or similar cable (Diagram 1). If POE is not available, the link can easily be upgraded using a low-cost POE injector such as Veracity's gigabit compatible OUTSOURCE 30 (Diagram 2).

No set-up or network configuration is required, as OUTREACH Lite G automatically sets up network speed, duplex and crossover on connection, and does not require an IP or MAC address.

Go further

If POE and network extension beyond 200 metres (656 feet) is required, Veracity's OUTREACH Max G may be installed to extend Ethernet and POE to OUTREACH Lite G.

For example, a 300 metre (984 feet) connection between a POE switch and another network device can be achieved by fitting an OUTREACH Max G at 100 metres along the cable, followed by 100m then an OUTREACH Lite G, and up to 100m to the gigabit network device.

For longer Ethernet runs, Veracity recommends LONGSPAN long distance point-to-point devices, which can achieve 100Base-TX connections with POE at up to 820m (2,690ft).

No restrictions

Because OUTREACH Max G and OUTREACH Lite G simply restore the network connection every 100 metres, the full bandwidth of gigabit Ethernet is maintained across the entire link. This maximises performance and transparency, with no risk of a reduced or unpredictable bandwidth, even at distances of several hundred metres or more.

OUTREACH Lite G APPLICATION DIAGRAMS

Diagram 1. OUTREACH Lite G is powered by POE, so it can double Ethernet range without requiring a local power outlet.

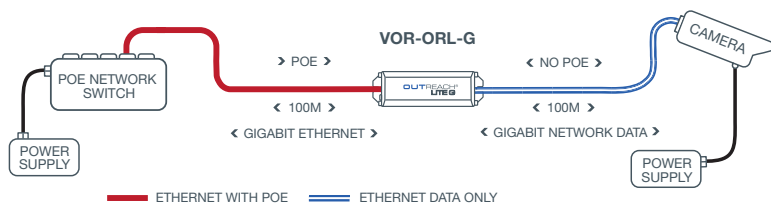
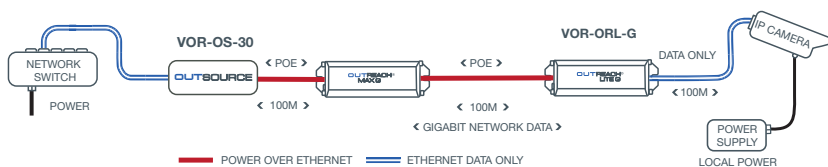


Diagram 2. If there is no POE available, upgrade the link with Veracity's low cost POE injector OUTSOURCE 30.





Application | OUTREACH Lite G extends Ethernet range reliably in buildings easily and quickly with no disruption to every day operation.

For more information, read Veracity's 'Long range Ethernet extension' white paper on the Veracity website

Which type of **OUTREACH** do I need?

Choosing between **OUTREACH** models is straightforward using the information below.

ETHERNET ONLY

If Ethernet extension only is required, use **OUTREACH Lite** models. Lite models extend Ethernet only and do not forward POE.

POE FORWARDING

If POE forwarding is also required, use **OUTREACH Max** models. Max models support all standards of POE forwarding.

EXTERNAL UNITS

For outdoor Ethernet extension, use **OUTREACH XT** models with IP67/Nema 4X/6P standard enclosures and connections.

GIGABIT OPTION

If Gigabit Ethernet extension is required, use **OUTREACH G** models as these support full Gigabit data rates.

EXTENSION TYPE	APPLICATION		NETWORK SPEED
	INDOOR	OUTDOOR	
Ethernet extension only	OUTREACH Lite	OUTREACH Lite XT	100Base-TX Ethernet
Ethernet extension with POE	OUTREACH Max	OUTREACH Max XT	
Ethernet extension only	OUTREACH Lite G	OUTREACH Lite GXT	Gigabit Ethernet
Ethernet extension with POE	OUTREACH Max G	OUTREACH Max GXT	

OUTREACH devices are ideal for Ethernet extension to 200m or 300m. The POE power source required will depend on the distance to the powered device (e.g. IP camera) and the power requirement of that device, as shown in this table.

POE SOURCE	MAXIMUM POE POWER	
	at 200m	at 300m
POE Switch (15W)	12W	9W
POE Switch (30W)	25W	20W
OUTSOURCE 30 (30W)	25W	20W
OUTSOURCE 90 (90W)	71W	43W

The power levels quoted above assume the use of high quality Cat6 Ethernet cabling. Smaller gauges may result in higher losses and reduced power delivery.

Beyond 300m, it is possible to daisy-chain further OUTREACH devices to achieve distances up to 700m or beyond, but we recommend the use of Veracity's LONGSPAN long distance point-to-point solution for such applications. LONGSPAN can span up to 820m with full 100Base-TX data rates and 15W of POE delivery or 25W at 600m.

TECHNICAL SPECIFICATION

OUTREACH[®]
LITE G

POWER		
Power consumption	1.3 watts via POE	
POE STANDARDS		
	IEEE 802.3af POE (802.3at and 802.3bt compatible, but not required) Class 2 powered device No POE forwarding	
ETHERNET INTERFACE		
	Two independently auto-configuring 10/100/1000 ports (10Base-T/100Base-TX/1000Base-T, half/full-duplex) Patch or crossover cables supported	
LEDS		
Status Indicators	Green LED - shows POE Power good/speed Green LED Blink = Power Good Green LED Flash = 10Base-T/100-BaseTX Green LED On = 1000Base-T Yellow LED - shows Ethernet link/activity	
PHYSICAL/ENVIRONMENTAL		
Dimensions	L 119mm W 36mm H 24.5mm	
Weight	79g [2.8 oz]	
Mounting	Two 5mm diameter mounting holes. Centres 111mm apart	
Operating temperature	-40°C to 70°C [-40°F to 158°F]	
Relative humidity	Up to 85%, non-condensing	
Compliance	CE, FCC, RoHS, UKCA, UL	
PRODUCT CODES		
VOR-ORM	OUTREACH Max	Ethernet and POE extender
VOR-ORL	OUTREACH Lite	Ethernet extender
VOR-ORM-XT	OUTREACH Max XT	Outdoor Ethernet & POE extender
VOR-ORL-XT	OUTREACH Lite XT	Outdoor Ethernet extender
VOR-ORM-G	OUTREACH Max G	Gigabit Ethernet and POE extender
VOR-ORL-G	OUTREACH Lite G	Gigabit Ethernet extender
VOR-ORM-GXT	OUTREACH Max GXT	Outdoor gigabit Ethernet and POE extender
VOR-ORL-GXT	OUTREACH Lite GXT	Outdoor gigabit Ethernet extender
VOR-OS-30-UK/EU/US	OUTSOURCE 30	30W POE Injector & UK/EU/US power cable
VOR-OS-90-UK/EU/US	OUTSOURCE 90	90W POE Injector & UK/EU/US power cable

Surge Protection

All Veracity products have been independently tested to verify their resilience to the stringent immunity levels of international standards. Users should note that no electronic equipment can be guaranteed to be completely protected at levels beyond the defined standard; therefore product warranty cannot include damage to products which has been caused by surges exceeding those of the standards specified, for example lightning strike activity.

It is the user's responsibility to implement relevant surge protection measures, as appropriate to the installation. This may include the fitting of additional surge protection devices where required.



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