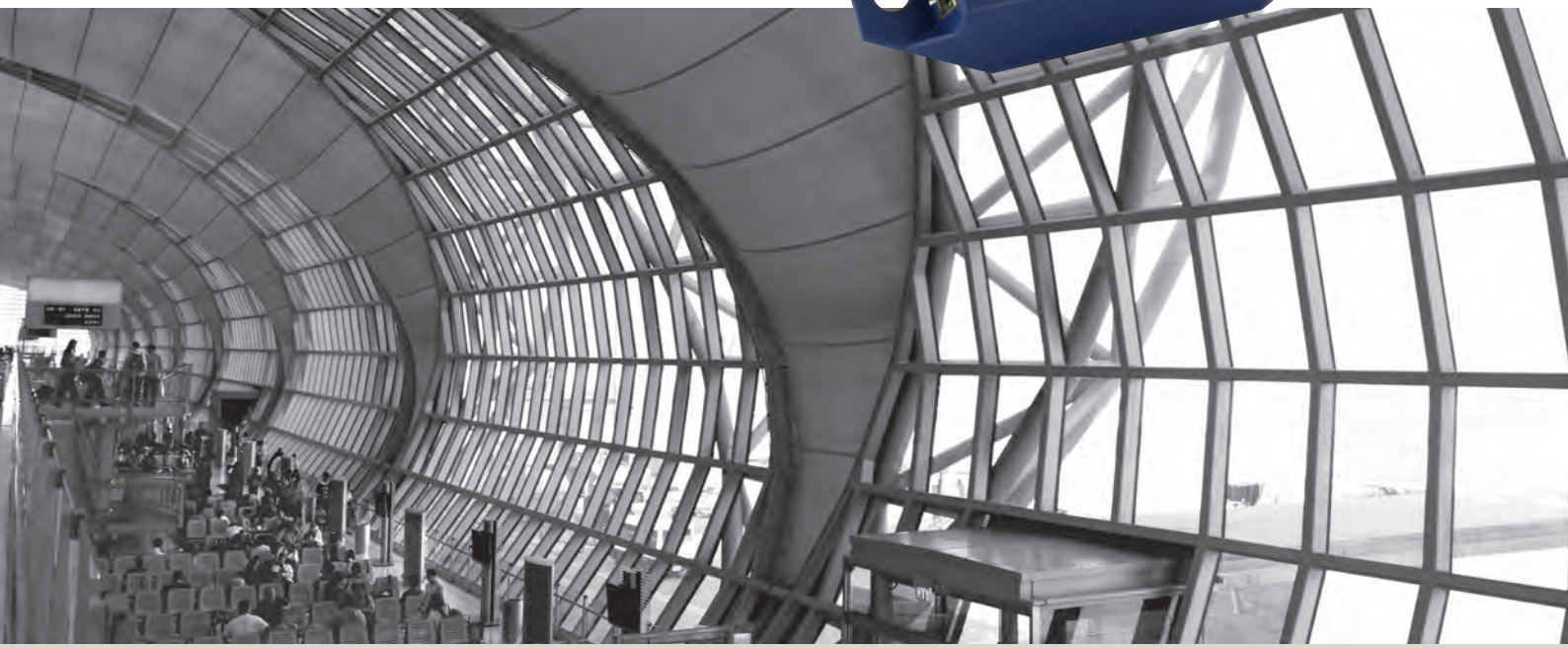
OUTREACH™ LITE

UNIVERSAL ETHERNET EXTENDER



Universal Ethernet network range extender

An easy way to double your network cable range without having to install power cables to an intermediate switch

- Instantly doubles cable range to 200 metres
- No local power required
- Full unrestricted network bandwidth
- Universal 10/100 compatibility
- POE powered device

veracity

OUTREACH Lite overcomes the distance limits of Ethernet, instantly

Simply connect an OUTREACH Lite in line with the network cable and instantly double its range to 200 metres (656 ft). No set-up or network configuration is required.

Ethernet is the ubiquitous technology for Local Area Network (LAN) installation, and the majority of networks in place use the 100BASE-T network standards.

However, many security installations demand network connections that exceed the maximum 100 metres (328 feet) distance limit for wired Ethernet.

OUTREACH Lite provides an instant solution to this restriction. Simply connect an OUTREACH Lite in line with the network cable - adding a Power over Ethernet (POE) injector if required - to double the available range to 200 metres (656 feet).

Simple installation

OUTREACH Lite takes advantage of the universal 802.3af POE standard, so it can draw its own power from the network connection. No local power is required, so OUTREACH Lite can be located exactly where it is needed.

If your network switch has POE, simply connect OUTREACH Lite up to 100 metres from the switch, and it will deliver another 100 metres' reach over regular Cat 5e 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 OUTSOURCE (Diagram 2).

No set-up or network configuration is required, as OUTREACH Lite 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 may be installed to extend Ethernet and POE to OUTREACH Lite.

For example, a 400 metre (1312 feet) connection between a POE switch and another network device can be achieved by fitting two OUTREACH Maxes at 100 metre intervals along the cable, followed by an OUTREACH Lite.

Unrestricted network connections up to 2.2 kilometres (1.4 miles) are possible, depending on configuration and POE source. See the OUTREACH MAX XT datasheet, or read Veracity's "Long Range Ethernet Extension" white paper.

No restrictions

Because OUTREACH Max and OUTREACH Lite simply restore the network connection every 100 metres, the full (200Mbit/s) bandwidth of 100BASE-T 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.

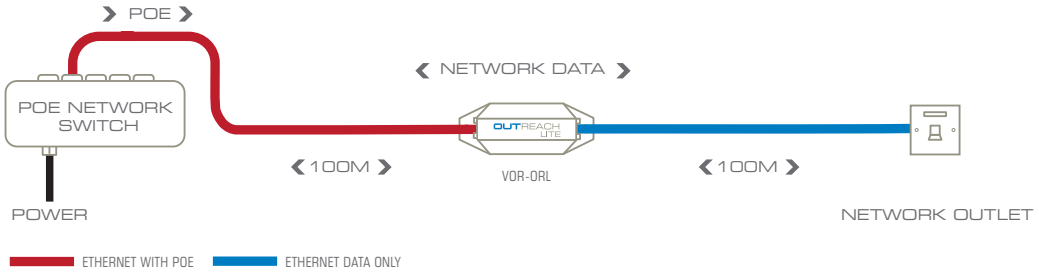


Diagram 1. OUTREACH Lite is powered by POE, so it can double Ethernet range without requiring a local power outlet.

Combine Veracity IP transmission products for the solution you need

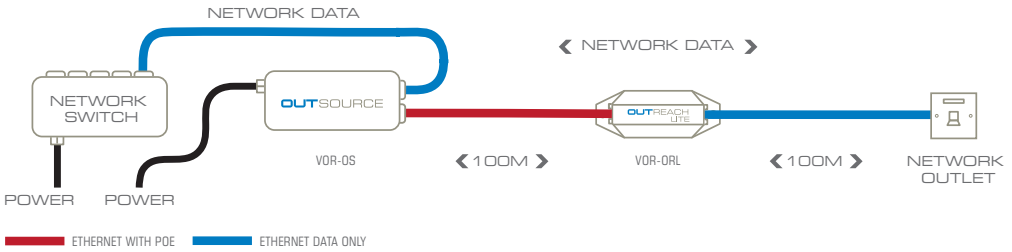


Diagram 2. If POE is not already available, it can easily be added using Veracity's OUTSOURCE injector.

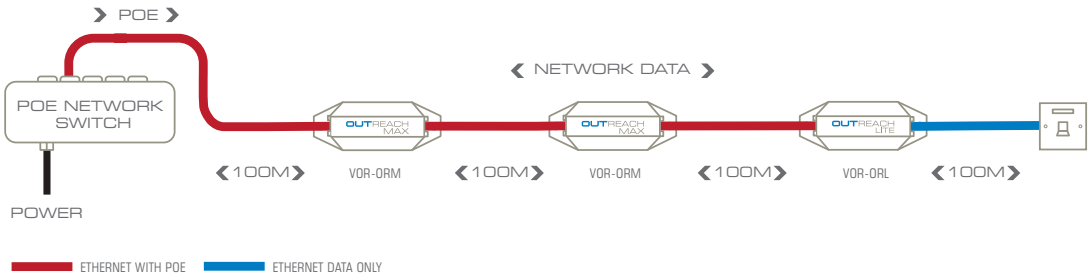


Diagram 3. OUTREACH Max extends POE as well, so it can be used in combination with OUTREACH Lite for even greater extension range.

Which type of OUTREACH do I need ?

Choosing between OUTREACH Max and OUTREACH Lite is straightforward:

If only Ethernet extension is required, use OUTREACH Lite

OUTREACH Lite extends Ethernet only and does not forward POE.

If POE forwarding is also required, use OUTREACH Max

OUTREACH Max supports all standards of POE forwarding, but does not support data-only extension.

For outdoor LAN extension, please see OUTREACH Max XT and OUTREACH Lite XT versions.

For network extension to devices which are unknown or may change, please consider OUTREACH Quad.

TECHNICAL SPECIFICATION] OUTREACH™ LITE

POWER		
Power consumption	1.3 watts via POE	
POE STANDARDS	IEEE 802.3af POE Class 2 powered device No POE forwarding	
ETHERNET INTERFACE	Two independently auto-configuring 10/100 ports (10BASE-T/100BASE-TX, half/full duplex) Patch or crossover cables supported	
LEDS		
Status Indicators	Power good, network link/activity (both ports)	
PHYSICAL/ENVIRONMENTAL		
Dimensions	L 105mm W 40mm H 22mm	
Weight	45g (1.6 oz)	
Mounting	Two 7mm diameter mounting holes. Centres 89mm apart	
Operating temperature	-10°C to 50°C (14°F to 122°F)	
Relative humidity	Up to 85%, non-condensing	
Compliance	CE, FCC, RoHS	
PRODUCT CODES	VOR-ORL	OUTREACH LITE	Ethernet extender
	VOR-ORM	OUTREACH MAX	Ethernet and POE extender
	VOR-ORM-XT	OUTREACH MAX XT	Outdoor Ethernet & POE extender
	VOR-ORL-XT	OUTREACH LITE XT	Outdoor Ethernet extender
	VOR-OS	OUTSOURCE	POE injector
	VOR-OSP	OUTSOURCE PLUS	POE Plus injector

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