

**OUTREACH  
LITE**  
UNIVERSAL ETHERNET EXTENDER



Universal Ethernet Range Extender

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



## OUTREACH Lite lets you overcome the distance limits of Ethernet, instantly

Ethernet is the ubiquitous technology for Local Area Network (LAN) installation, and the majority of networks in place today use the 10 and 100BASE-T network standards. However, many installations demand network connections that exceed the maximum 100 metre (328 foot) 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).

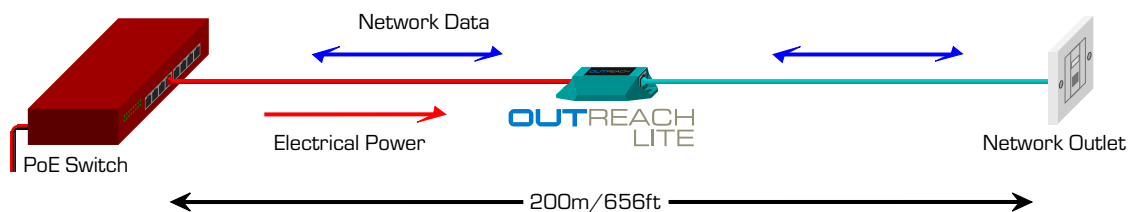
### Simple installation

OUTREACH Lite takes advantage of the universal 802.3af

PoE standard, so it can draw its own power from its network connection. No local power is required, so OUTREACH Lite can be located wherever it is needed.

If your network switch has PoE, simply connect OUTREACH Lite up to 100 metres from the PoE switch, and it will restore the network connection and deliver another 100 metres' connection over regular Cat5e or similar cable. If PoE is not available, the link can easily be upgraded using a low-cost PoE injector such as Veracity's OUTSOURCE.

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.



Example 1. Outreach Lite is powered by PoE, so it can double Ethernet range without requiring a local power outlet.



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



## 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 foot) 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 user manual for tables, 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 further.



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

## Which OUTREACH do I need?

Choosing between OUTREACH Max and 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.

If network extension is required to equipment that is unknown or changeable and may or may not require PoE, please see Veracity's OUTREACH Quad PoE-forwarding network switch.



## Related Products

### OUTSOURCE

OUTSOURCE is a fully IEEE 802.3af compliant PoE injector. Any network link can be upgraded with PoE power, simply by patching it through OUTSOURCE. This allows network extension using OUTREACH Lite.

OUTSOURCE also features enhanced PoE, which OUTREACH Max can use to increase the range and power available for PoE extension.



### CAMSWITCH QUAD

CAMSWITCH Quad is a 4+1 port 10/100 Ethernet switch with up to 30 watts of PoE power available across four ports. It is compact, rugged, and wall-mountable, and has the unique feature of being able to accept power from 12VDC or 24VAC sources.

Each of CAMSWITCH QUAD's PoE ports can deliver power to an OUTREACH Lite, enabling network extension to 200 metres.



### OUTREACH MAX

OUTREACH Max is an Ethernet extender which also forwards PoE, enabling network extension to PoE-powered devices such as IP cameras, wireless access points, and OUTREACH Lite itself. It can forward PoE, PoE Plus, or high-power PoE up to 60 watts.

Note that OUTREACH Max is for use with PoE compatible equipment only. If PoE forwarding is not required, OUTREACH Lite should be used instead.



# OUTREACH LITE

## Technical Specification:

Device power	1.3 watts
PoE standard	IEEE 802.3af PoE Class 2 powered device No PoE forwarding
Ethernet	Two independently auto-configuring ports (10BASE-T/100BASE-TX, half/full duplex) Patch or crossover cables supported
LED indicators	Power good, network link/activity (both ports)
Dimensions	105 x 40 x 22 mm (4.13 x 1.57 x 0.87 in) LxWxH Weight 70g (2.5oz)
Mounting	Two 7mm (0.28in) diameter mounting holes Centres 89mm (3.5in) apart
Environmental	Operating temp. -10 to 50C (14 to 122F) Humidity up to 85%, non-condensing
Product codes	VOR-ORL    OUTREACH Lite    Ethernet extender VOR-ORM    OUTREACH Max    Ethernet & PoE extender VOR-OS    OUTSOURCE    PoE injector



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