

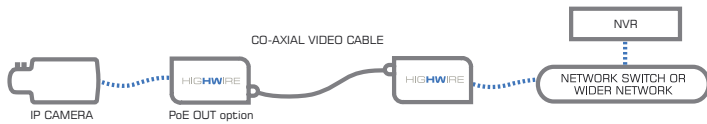
Expanded horizons for networked video

Veracity has developed a family of innovative products to support IP Video projects. These solve practical problems in IP Video system design and deployment. Veracity focuses on transmission, storage and display solutions, particularly for high-bandwidth mega-pixel IP camera systems. Based in the USA and the UK, the Company has established a strong reputation in the global market for its products, via both direct sales and as a supplier to OEM partners. This product summary sheet provides information on our range of transmission solutions, time synchronization and solid-state analog video recorders. See our website for further information at www.veracityusa.com





EXPANDED HORIZONS FOR NETWORKED VIDEO



HIGHWIRE™

Ethernet over coax cable

- Uses legacy coaxial cabling - cuts installation costs
- Supports multiple IP cameras
- Supports MEGA-PIXEL cameras
- Supports any network device
- Fully transparent 100BaseT Ethernet
- Simple to install - no IP address or other setup required
- Full-speed over 1,000 to 1,500 feet of cable
- Compact - fits inside CCTV camera housings
- Low power - uses camera supply
- Rack-mount option for control room end
- Now available with PoE OUT (Class 2 – 6.5W)



HIGHWIRE Quad™

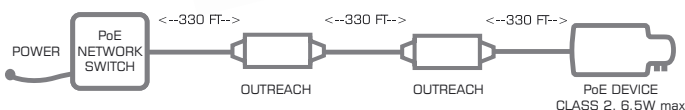
4 x IP cameras over one coax cable

- 4-port PoE HIGHWIRE (4 x 6.5W Class 2 outputs)
- 12-24V DC or 24-32V AC power accepted
- Supports 4 x mega-pixel or standard IP cameras over single coaxial cable
- Simple installation, no configuration required
- Combines HIGHWIRE and four-port network switch
- Wall mountable, compact and robust design

OUTREACH™

LAN & Power over Ethernet extender

- 100 Mbps midspan PoE-powered extender
- Extend Ethernet over CAT5 to 2000 feet and beyond
- Delivers Class 2 PoE up to 1,000 feet
- Delivers Class 3 PoE over 2,000 feet with OUTSOURCE PoE Injector
- Patent pending power management
- Fully self-configuring using PoE, no external power required
- Auto-detecting of PoE devices (IEEE compliant)
- Auto-detection of OUTREACH for extended distances
- Compact and robust with integrated wall mounting



CAMSWITCH Quad™

Wall-mounted PoE network switch for IP cameras

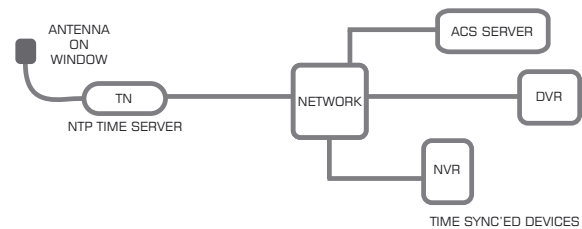
- 4+1 - port 100BaseT network switch
- 4 PoE network ports (Class 2 PoE)
- 1 uplink port (5 ports total)
- Designed for IP camera applications
- Supports 4 x mega-pixel or standard IP cameras
- Wall-mounted, robust design
- 12-24V DC or 24-32V AC power input
- Can be combined with OUTREACH for long cable runs



TIMENET™

NTP Atomic clock server for DVR and ACS

- Accurate universal atomic clock reference
- Supports all NTP compatible devices
- Ideal for CCTV and DVR applications
- Far lower cost than competing products
- Ideal for closed or secure networks
- Direct network interface for remote siting
- Simple setup - One IP address
- Automatic GPS lock and time sync
- Extremely compact design
- Indoor wall mounting location (antenna on a window)
- Integral watchdog for long-term reliable operation
- Wide operating temperature range



DRIVEPROOF™

Solid-state digital video recorder

(For analog video*)

SPOTCHECK, DRIVEPROOF and VIEWPROOF are specialised variants of our robust, compact, single-channel hot-swap compact flash DVR. This all-solid-state unit has no fans, heat sinks or moving parts, is totally silent and uses less than 7W power. The units can record up to 30fps with full-frame resolution and uses JPEG2000 hardware compression to give superb image quality. The CF card can be connected to any PC for playback or conversion to other compression formats, via the licence-free viewer software supplied.

*An IP camera compatible system is in development



SPOTCHECK™

Real-time spot monitor recorder

Instant reverse replay or pause live

Mark events for instant playback

Keyboard or serial port control

Fast evidence production

DRIVEPROOF™

Vehicle DVR system

Uses vehicle power (12V or 24V)

Records within 5 secs of power-on

Alarm inputs to trigger recording

Robust & reliable - No hard disk!

VIEWPROOF™

Covert surveillance recorder

Low power (7W), compact, easily concealed

Integrated video motion detection

Alarm and/or scheduled recording operation

Remote interrogation via Internet



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HIGHWIRE™

High-Speed Ethernet Over Video Cable



HIGHWIRE™ allows IP Network Cameras to communicate over existing co-axial video cables.

- Uses legacy cabling - cuts installation costs
- Supports multiple IP cameras
- Supports MEGA-PIXEL cameras



veracity

DIGITAL VIDEO SURVEILLANCE



HIGHWIRE™

High-Speed Ethernet
Over Video Cable

Why HIGHWIRE cuts your installation costs

- Uses legacy analog video cabling
- Supports multiple IP cameras
- Supports MEGA-PIXEL cameras
- Supports any network device - fully transparent 100BaseT Ethernet
- Simple to install - no IP address or other setup required
- Up to 1100ft cable runs per pair
- Compact - fits inside camera housings
- Low power - uses camera supply
- Rack-mount option for control room end
- Solves network traffic problem for MEGA-PIXEL cameras

Signal Converter

HIGHWIRE turns any existing analog video cable (co-ax) into a high-speed Ethernet connection. This allows multiple networked IP cameras to replace a single analog CCTV camera, without installation of any new cabling. Thus the investment in the original cabling (usually around 30% of any system installation cost) can be retained and exploited for new-generation networked CCTV camera systems. HIGHWIRE is especially suited to mega-pixel IP camera applications or multiple IP cameras as it supports high data rates.

HIGHWIRE is not a video codec or any kind of video capture device – it is simply a signal conversion device enabling Ethernet over co-ax for ANY type of network device (e.g. IP camera, network switch, DVR/NVR, PC or even a printer).

Simple Installation

HIGHWIREs are used in pairs and installing them is extremely simple. One HIGHWIRE unit is connected to each end of the co-axial cable with the BNC connectors, thus providing a straight RJ45 to RJ45 network connection from end to end across the existing cabling.

This HIGHWIRE to HIGHWIRE connection instantly operates as a full-duplex 100BaseT Ethernet connection and is completely transparent to any network device. HIGHWIRE has no MAC address or IP address and requires no set-up whatsoever.

Auto Cable Adaptation

Where cable length, quality or signal interference prevents full rate operation (200Mbps), the HIGHWIRE pair will auto-adapt to transmission conditions, lowering the total bandwidth as necessary. This will be transparent to the network system, although the connection bandwidth will be reduced. However it is the total rate (up + down) which decreases – so that for example at half rate, cameras that require up to 90Mbps downstream and 10Mbps upstream capacity will not be affected.

Compact Device

HIGHWIRE itself is a compact box about the size of a pack of playing cards. It has a standard RJ45 network connector on one side and a co-axial BNC connector on the other. It uses very little power, and is designed to fit inside a camera housing.

Mega-Pixel Cameras

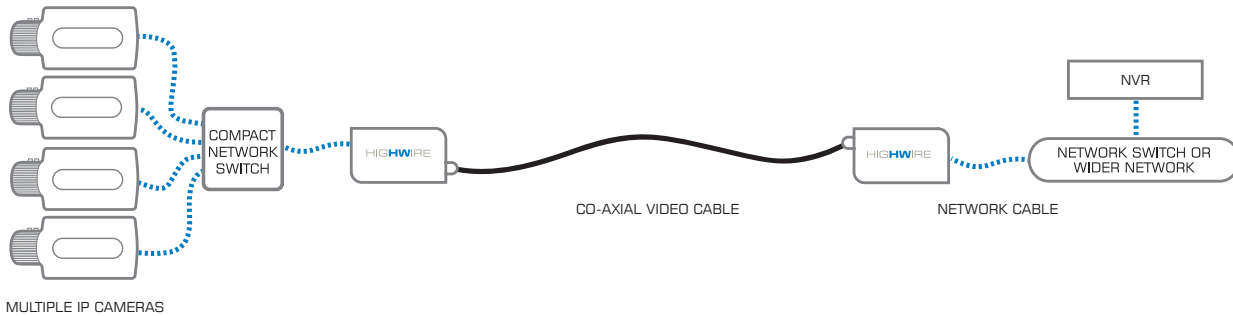
CCTV cable is normally routed to a central point, forming an effective single “star” network topology. Thus exploitation of legacy video cable with HIGHWIRE actually solves a major problem with mega-pixel cameras – that of the high network bandwidth requirements for such devices.

HIGHWIRE™ Applications



In this application, a high-resolution mega-pixel IP camera replaces a standard analog CCTV video camera. The IP camera's standard Ethernet TCP/IP connection is linked to a HIGHWIRE device with a short CAT5 patch cable (straight-through or cross-over). Both the camera and the HIGHWIRE are powered from the same power supply, and both may be fitted inside a standard external camera housing. The HIGHWIRE link runs across the existing

installed 75ohm co-axial video cable, and the rest of the network is connected at the other end (usually, but not necessarily, a control room or equipment room). One, several or many such links may feed into the network to an NVR (network video recorder). As the network link is full speed and fully-transparent, the IP camera appears on the network as a completely normal IP connection.



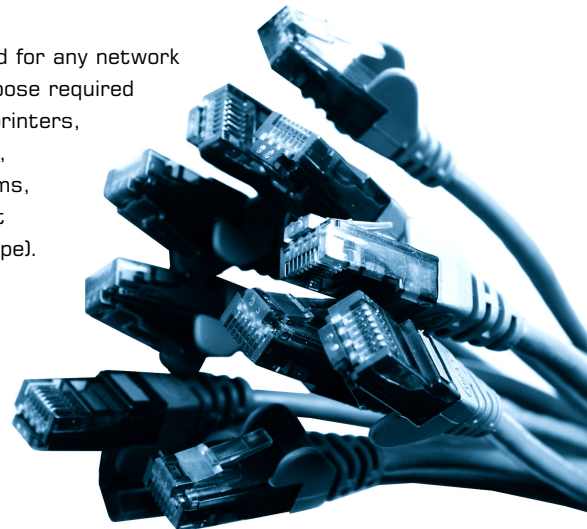
In this application, multiple IP cameras replace a single analog CCTV video camera. The IP cameras are connected to a small network switch. One port of the switch is linked to a HIGHWIRE device. Again, the HIGHWIRE link runs across the existing installed

75ohm co-axial video cable, and the rest of the network is connected at the other end which again, usually includes one or more network video recording systems, which "see" the cameras as if they were connected over Ethernet cable.



This is an example of a completely general application, where any network device or devices are connected across a length of co-axial video cable. An example might be a Gatehouse located remote from a main building, which is only connected to the main building with a video cable (perhaps originally laid-in for a night-guard to view a camera). Now this legacy cabling can be turned into a full 100BaseT network

connection and used for any network communication purpose required (IP cameras, PCs, printers, network controllers, voice-over-IP systems, in fact any Ethernet equipment of any type).





TECHNICAL SPECIFICATIONS

HIGHWIRE INTERFACE

Connector type :	BNC 75ohm
Cable impedance :	75ohm (RG59 or similar)
Cable length max :	Up to 800ft for full data rate (or up to 1100ft at a reduced rate)
Data throughput max :	200Mbps (total up + down). Auto-adaptation to cable conditions.

ETHERNET INTERFACE

Connector type :	RJ45
Cable type :	Straight through or cross-over, auto detected
Rates supported :	100BaseT / 10BaseT, full/half duplex with auto negotiation

LED INDICATORS

Green – Constant :	Power OK, Full HIGHWIRE data link
Green – Slow :	Power OK, Auto-adapted HIGHWIRE data link
Green – Blink :	Power OK, no HIGHWIRE link
Green – Off :	No power
Amber – Constant :	Ethernet link On
Amber – Blink :	Network traffic

POWER SUPPLY

Connector type :	Screw terminals with detachable plug
Power supply type :	IEC Class II isolated only
Operating voltage :	Nominal 12V DC (9-24V working range) or 24V AC (type and polarity auto detected)
Supply current :	200mA (12V), 100mA (24V)

ENVIRONMENTAL

Operating temp.:	14°F to 122°F
Relative humidity :	85% non-condensing
Grounding :	Chassis should be grounded and is connected to the BNC shield.
Dimensions :	L 4.01" (3.27" excl. conns.) x W 2.13" x H 0.91"
Weight :	4 oz. (110g)
Compliance :	FCC, CE, RoHS

HIGHWIRE PRODUCT CODES

VHW-HW	HIGHWIRE Ethernet over video cable converter
VHW-12VPSU	12v DC power supply (normally not required)
VHW-WMB	Wall mounting bracket (1 HIGHWIRE unit)
VHW-1U	Rackmount kit (Bracket for 8 units in 1U high)
VHW-RMPUSU	Power Supply (12V DC) for rackmount kit (8 units)
VHW-XF	Inline HIGHWIRE ground isolator

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Veracity USA Inc., a wholly-owned subsidiary of Veracity UK Ltd



EXPANDING HORIZONS IN NETWORKED VIDEO

OUTREACH™

ETHERNET AND POE EXTENDER



OUTREACH™ extends Ethernet cable installations to 200 metres and beyond

- Forwards LAN and power to remote POE devices
- Designed for IP cameras, VOIP phones etc.
- Requires no power cable installation
- Requires no set-up or configuration

.....
POWER PROMISE





OUTREACH™

ETHERNET AND POE EXTENDER

Why OUTREACH simplifies your network installations

- Extends Ethernet cable installations to beyond 100 metres
- Forwards Power Over Ethernet (POE) to remote devices
- No power cable installation required
- Incorporates Power Promise™ technology for reliable power delivery
- Fully transparent – no restriction to network traffic
- Simple to install – works instantly
- Robust, compact and wall-mountable
- Supports all network devices
- Compatible with universal IEEE 802.3af POE standard

Ethernet Extension

Cables in an Ethernet network are limited to 100 metres in length, but frequently network equipment must be connected over greater distances. OUTREACH lets you overcome this restriction with a single, simple device.

OUTREACH is fitted in-line with the cable and acts as a repeater. A single OUTREACH may be used to join two cables, each of up to 100 metres in length, to allow a network connection over up to 200

metres. OUTREACH is transparent to the link, allowing a full-duplex 100Base-T connection with no restrictions.

POE Forwarding

OUTREACH draws its power from the network cable using Power Over Ethernet, and requires no local power supply to be installed. It can also forward POE power on to other connected devices such as IP cameras, VOIP phones and wireless access points, allowing the extension of both power and data to beyond 100 metres.

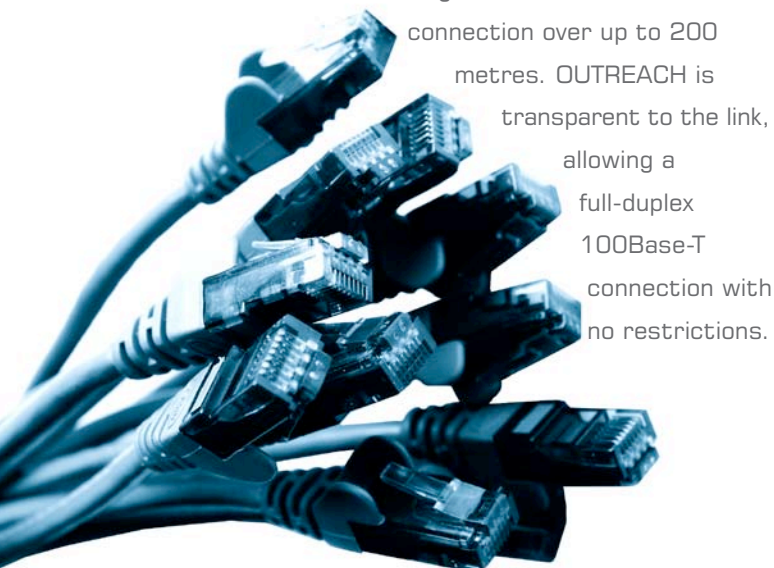
OUTREACH incorporates Veracity's Power Promise™ technology (patent pending), enabling it to intelligently monitor power distribution across the entire network link, without requiring any interaction from other devices. Only Power Promise makes it possible for OUTREACH to decide whether POE power can safely be enabled to connected devices.

Daisy-chaining

For installations that reach beyond 200 metres, it is possible to connect two or more OUTREACHes in a chain, with up to 100 metres of cable between each OUTREACH or device. Links may be extended up to 1000 metres in this way, depending on the power requirements of the connected POE devices, and other factors. Power Promise allows POE to be forwarded by a chain of OUTREACHes with no risk of an overloaded POE supply or an underpowered POE device.

Simple Installation

OUTREACH requires no setting-up and its only connectors are for the two network cables it joins. The Ethernet and POE connections are established and configured automatically, and no external equipment, custom installation or modifications are required.





OUTREACH™

ETHERNET AND POE EXTENDER

No network set-up is necessary as OUTREACH does not use a MAC or IP address and is undetectable to other network devices. The Power Promise™ technology ensures only safe and reliable POE power is enabled. In the unlikely event of any problems, diagnostic LEDs help the installer to locate the source of the problem quickly and easily.

Cost Savings

Using OUTREACH in your installation brings the benefits of POE to the whole site. Most significantly, mains power installation is not required for remote switches or network

devices such as IP cameras. Installation costs become more predictable, as OUTREACH offers a fast and low-cost solution to underestimated cable lengths or changes to equipment locations.

Centrally-sourced POE also reduces ongoing maintenance costs, as devices can be reliably powered by an Uninterruptible Power Supply, and remotely power-cycled if they need to be reset. Devices are not tethered to power points and can easily be relocated after installation, using an OUTREACH to provide the extra distance.

Accessories

OUTSOURCE

OUTSOURCE is a single-channel POE injector. It is connected in-line with an Ethernet cable, to add POE capability to the network link. It can be used to upgrade a channel of a standard Ethernet switch to POE, but can also be installed after a POE switch to increase available POE power (in which case the OUTSOURCE will supply all power and the switch will not enable POE to the connection at all).

OUTSOURCE is a fully IEEE

802.3af compliant POE midspan which can deliver maximum-class power to POE devices (up to 12.95 Watts). It is also capable of higher-power operation when used

in conjunction with OUTREACH, allowing OUTREACH to forward the full range of POE power over even greater distances.



OUTBREAK

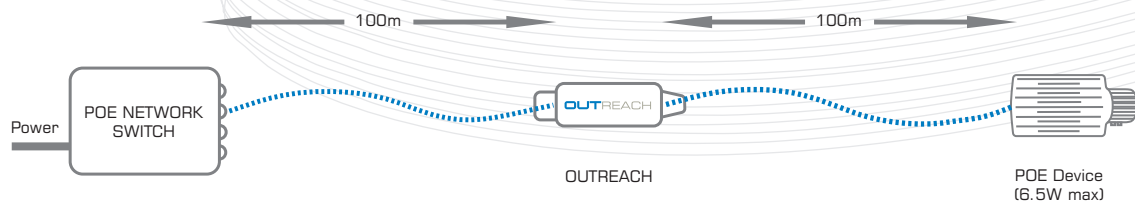
OUTBREAK is a POE splitter which can be used to add POE capability to non-POE devices. It receives POE power from its network input, and separates it into a non-POE Ethernet connection and an auxiliary 12V supply. Note that OUTBREAK is a IEEE 802.3af Class 0 device, so it will only be enabled by OUTREACH if an OUTSOURCE has been installed.



OUTREACH™

ETHERNET AND POE EXTENDER

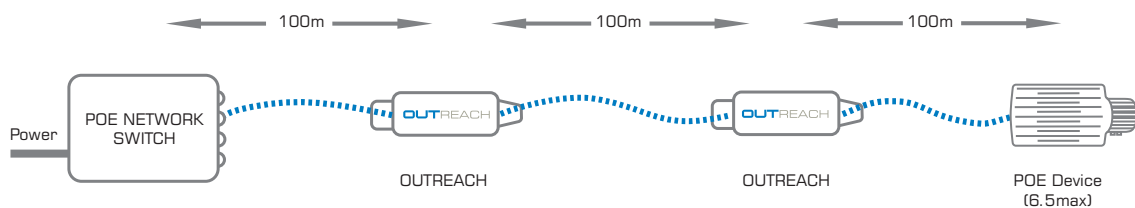
Applications



In the simplest application, an OUTREACH allows an IP camera to be located 200 metres away from a POE switch. The switch delivers POE power over the first 100 metres of Cat5 cable to the OUTREACH, and the OUTREACH restores the Ethernet signal and forwards remaining POE power to the camera. The OUTREACH requires no local power supply, and the OUTREACH presents no restriction to

the camera's network connection.

Typically, the POE switch would be confined to a centrally located equipment room, and would connect to several IP cameras distributed about the site. With OUTREACH, each camera may have its own dedicated connection to the switch, and power cable installation to remote switches or cameras is not required.



This application is similar to the previous example, but extends the network connection by a further 100 metres by making use of OUTREACH's daisy-chaining capability. Again mains power is only required at the POE switch, data bandwidth is unrestricted,

and POE power is safely managed.

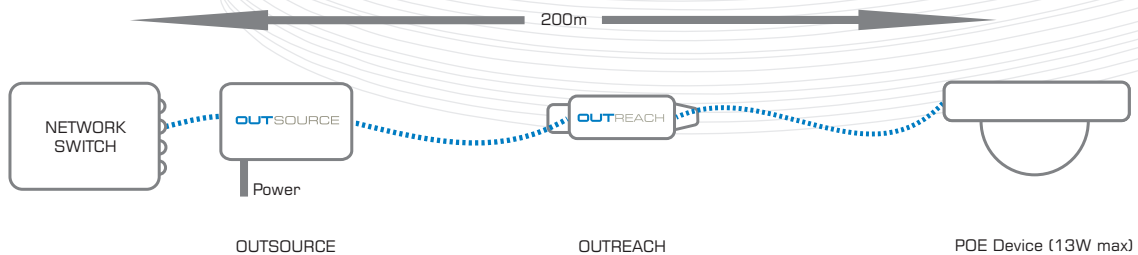
Although IP camera installations are highlighted in these applications, the examples apply equally to other POE devices such as IP telephones and Wireless Access Points.



EXPANDING HORIZONS IN NETWORKED VIDEO

OUTREACH™

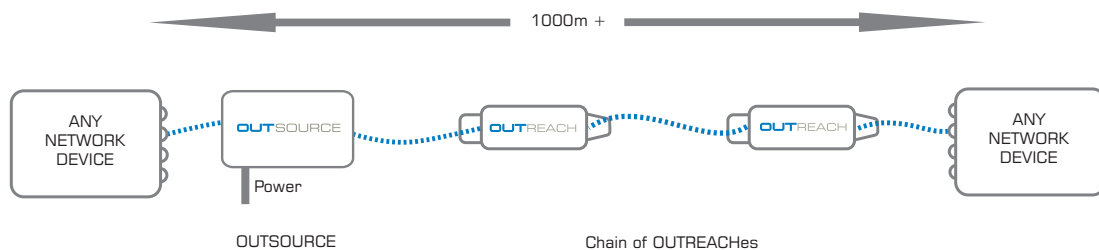
ETHERNET AND POE EXTENDER



In this application, POE capability is added to the network connection using Veracity's OUTSOURCE power injector. OUTSOURCE not only upgrades the standard switch's Ethernet port to be POE compatible, but is able to deliver extra power to the OUTREACH, above the usual maximum for POE.

This enables OUTREACH to extend Ethernet connections to greater distances, and enable power to higher power-class devices.

In the example above, the OUTSOURCE and OUTREACH allow POE power to be supplied to a maximum power-class (13 Watt) dome camera over a 200 metre network connection.



OUTREACH will also extend Ethernet without POE to all standard network devices, and the maximum extension distance is greatest when there is no requirement for POE to be forwarded. The example above shows an OUTSOURCE powering a chain of OUTREACHes

of up to 1000 metres in length. The link is still a full 100Base-T connection – a significant improvement over other methods of Cat5 network extension, which seriously restrict bandwidth – and only one mains power connection is required.

OUTREACH Technical Specifications

ETHERNET Connector type: Cable type: Rates supported	RJ45 x 2 Straight through or cross-over, auto detected 100BASE-TX, full duplex only with auto-negotiation			
POWER Maximum power: POE in: POE out:	2.2 Watts (1 Watt typical) IEEE 802.3af Class 0 (max 12.95 Watts) IEEE 802.3af Class 1 or 2 (max 6.49 Watts) IEEE 802.3af Class 3 (max 12.95 Watts) using OUTSOURCE			
LED INDICATORS Link/activity	On: Blinking: Off:	100BASE-T link good Network activity No network connection to port		
POE in:	On: Blinking: Off:	Power good Power good, approaching IEEE limits No power to OUTREACH unit		
POE out:	On: Blinking: Off:	POE enabled to connected device Insufficient power for device or POE fault POE not requested by connected device		
MAXIMUM RANGE POE device class Device power up to: Range with POE switch: Range with OUTSOURCE:	3	2	1	(no POE)
	12.95W	6.49W	3.84W	n/a
	n/a	300m	400m	700m
	300m	500m	700m	1000m
Note: These distances are typical results when used with 24AWG Cat5, Cat5e or Cat6 cable.				
ENVIRONMENTAL Operating temp: Relative humidity: Dimensions: Mounting: Weight: Compliance:	-10°C to 50°C 85% non-condensing L 100mm (70mm excluding tabs) x W 37mm x H 20mm 7mm holes on two tabs, 84mm apart 85g CE, FCC, RoHS			
OUTSOURCE Power input: Dimensions:	100-240VAC, 47-63Hz L 140mm x W 65 mm x H 36mm			
OUTBREAK Power output: DC Connector: Dimensions:	12VDC, 1A 5.5mm barrel, pin 2.5mm, centre positive L 100mm x W 56mm x H 28mm			
PRODUCT CODES VOR-OR VOR-OS VOR-OB	OUTREACH Ethernet and POE extender OUTSOURCE midspan POE injector OUTBREAK 12 Volt POE splitter			

OUTREACH QUAD

OUTREACH QUAD Specification - Preliminary

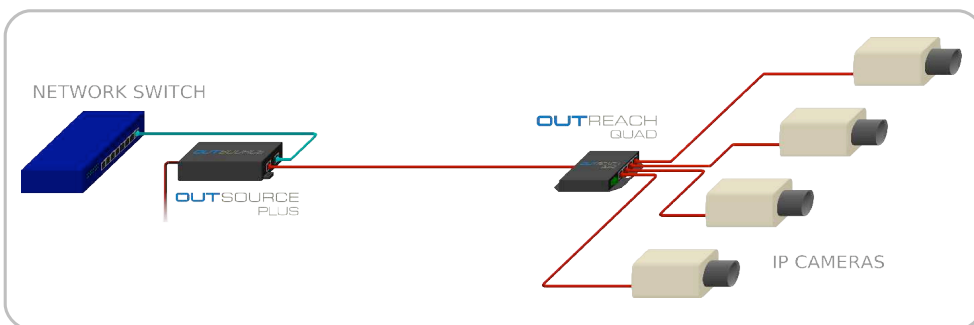
Veracity UK Ltd, 12/01/2009

Extend and Expand your PoE-enabled network instantly with OUTREACH QUAD:

- 10/100 unmanaged Power over Ethernet forwarding network switch
- PoE-powered, so no electrical installation required
- Compatible with PoE, PoE Plus, OUTSOURCE and OUTSOURCE PLUS sources
- Forwards power automatically to up to four IP cameras or other PoE devices
- PowerPromise™ technology (patent pending) guarantees reliable power



Veracity's unique new product, OUTREACH QUAD, enables truly reliable *distributed PoE* for the first time, so that multiple devices can be connected beyond Ethernet's 100 metre cable length limit. Unlike conventional network-edge switches, OUTREACH QUAD does not need to be near a mains power socket or require the installation of electrical cabling. Instead, power for all remote devices including the OUTREACH QUAD switch itself can be sourced from a single central point.



The diagram illustrates how OUTREACH QUAD may be used to allow up to four IP cameras to be connected to a single central switch port on a new or existing network installation. OUTSOURCE PLUS injects boosted PoE Plus power onto the cable, and OUTREACH QUAD repeats the network data and intelligently forwards PoE power to the cameras over a further 100 metres of network cable.

Two variants of OUTREACH QUAD are available in addition to the standard model: OUTREACH QUAD 12 adds an intelligently-managed and electrically isolated 12 volt power output for auxiliary devices such as fans and heaters. OUTREACH QUAD LITE removes the PoE-forwarding capability, for when a low-power and lower-cost solution to extending and expanding Ethernet without PoE is required.

Technical Specification :

Ethernet :

Connector type : RJ45, five ports
Cable type : Straight through or cross-over, auto detected
Rates supported : 100BASE-TX / 10BASE-T, full / half duplex, auto negotiating

Power over Ethernet in :

PoE standard : IEEE 802.3af, 802.3at, OUTSOURCE or OUTSOURCE PLUS
Power class : Class 4 (OUTSOURCE QUAD LITE is class 1)

Power over Ethernet out :

PoE standard : IEEE 802.3af, any power class (0-3)
Power budget : 0-26W, PowerPromise optimised

Power Output (OUTREACH QUAD 12 only) :

Connector type : Screw terminals with detachable plug
Voltage : 12V DC +/- 2 % (if current is below limit)
Current limit : 0-2A, PowerPromise optimised

LED Indicators :

Amber (all ports) :

Constant : Ethernet link On
Blink : Network traffic

Green (PoE in port) :

Blink : Power good (pattern = detected PSE/budget)
Off : PoE supply not present or incompatible

Green (PoE out ports, not used on OUTREACH QUAD LITE) :

Blink : PoE requested (pattern = enabled/refused, power class)
Off : PoE not requested

Environmental :

Operating temp : -10°C to 50°C
Relative humidity : 85% non-condensing
Grounding : Optional
Dimensions : L=110mm W=110mm H=21mm
Weight : 270g
Compliance : CE, FCC, RoHS
Mounting : 2x 7mm holes, 91mm centres

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POWER PROMISE



OUTREACH PLUS

OUTREACH PLUS Specification - Preliminary

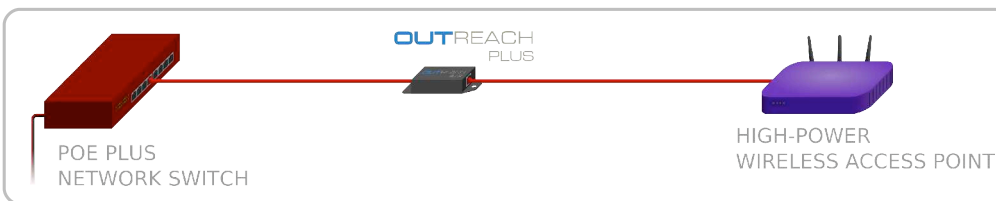
Veracity UK Ltd, 12/01/2009

Extend PoE to high-power network devices instantly with OUTREACH PLUS:

- 100BASE-TX Ethernet repeater with Power over Ethernet (PoE) forwarding
- PoE-powered, so no electrical installation required
- Compatible with PoE Plus, OUTSOURCE PLUS and other high-power standards
- Automatic power forwarding and Ethernet connection with no user configuration

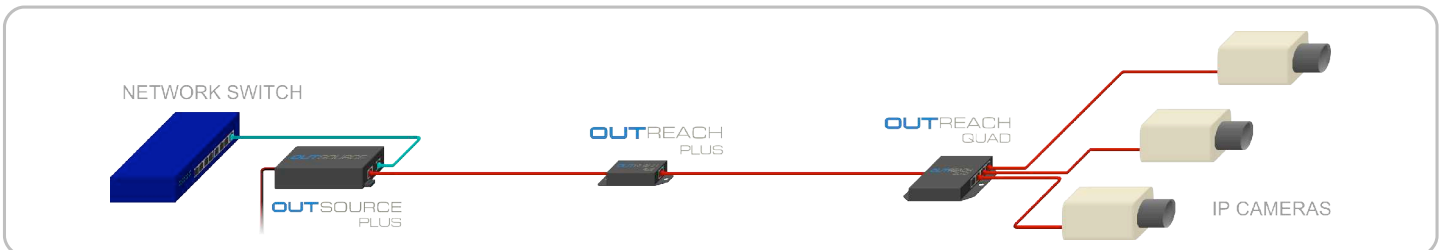


OUTREACH PLUS brings the benefits of Veracity's OUTREACH Ethernet extension technology to high-powered network devices such as PTZ IP cameras, remote door interlock systems, and video-enabled VoIP phones, freeing them from the 100 metre length limit for Cat 5 or similar network cables. OUTREACH PLUS supports PoE Plus - the new IEEE standard (802.3at) which increases the available power for network devices from 13 to 25 watts – and most other proprietary high-power PoE implementations.



PoE Plus devices such as the 802.11n wireless access point shown in the first example may now be located up to 200 metres from a power source, with no need for expensive mains cable installation for the remote equipment.

Veracity's OUTSOURCE PLUS is an enhanced PoE Plus power injector and is recommended for use in OUTREACH PLUS and OUTREACH QUAD installations. The diagram below shows how these products may be used to locate three PoE IP cameras up to 300 metres from a single central network switch port and mains power point.



Technical Specification :

Ethernet :

Connector type : RJ45, two ports
Cable type : Straight through or cross-over, auto detected
Rates supported : 100BASE-TX full duplex only, auto negotiating

LED Indicators :

Amber (both ports):
Constant: Ethernet link
Blink: Network traffic
Green (PoE in port):
On: Power good
Off: PoE not enabled; PSE or PD not present

Power over Ethernet :

PoE standard : IEEE 802.3af, 802.3at, OUTSOURCE, OUTSOURCE PLUS (recommended), some non-standard implementations
Power class: N/A

Environmental :

Operating temp : -10°C to 50°C
Relative humidity : 85% non-condensing
Grounding : Optional
Dimensions : L 105mm
W 42mm
H 20mm
Weight : 100g
Compliance : CE, FCC, RoHS
Mounting : 2x 7mm holes, 89mm centres

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CAMSWITCH QUAD

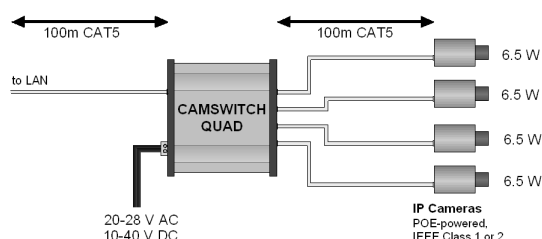


Features :

A Network Switch for IP Video:

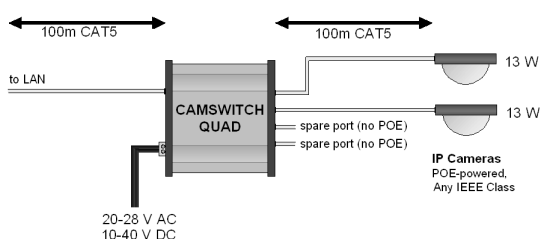
- Five-port unmanaged 10/100 switch
- Power Over Ethernet (POE) supplied to cameras on four ports
- Unique 12V DC / 24V AC power connection via screw terminals
- Automatic Ethernet configuration and safe power management
- Compact, rugged enclosure
- Wall-mountable

Application examples:



The first diagram illustrates a typical application. CAMSWITCH QUAD detects the IEEE Power Class of all four cameras before safely enabling power to them.

Most POE-compatible IP cameras are IEEE Power Class 2, drawing up to 6.5 Watts. However CAMSWITCH QUAD can support any combination of POE devices as long as its total power budget is not exceeded.



In the second diagram, CAMSWITCH QUAD delivers POE power to two maximum-Power Class devices. The remaining two ports can still be used for Ethernet, but POE power will be refused as it cannot be delivered safely and reliably.

Power for all devices is supplied via CAMSWITCH QUAD's versatile power input, which is designed to be compatible with existing 12V DC or 24V AC supplies, and accepts DC power in either polarity to safeguard against wiring errors.

An optional power supply is also available from Veracity.

Technical Specification:

Ethernet :

Connector type : RJ45, five ports
Cable type : Straight through or cross-over, auto detected
Rates supported : 100BaseT / 10BaseT, full / half duplex, auto negotiating

Power over Ethernet :

POE standard : IEEE 802.3af on four ports, any Power Class (0-3)
Max total power : 30.8 Watts (including cable losses)

LED Indicators :

Amber :	Constant:	Ethernet link On
	Blink:	Network traffic
Green : (POE ports)	Constant:	POE enabled to port
	Blink:	Port error / insufficient power available
	Off:	No POE requested
Green : (non-POE port)	Constant:	Power OK
	Off:	No power

Power

Connector type : Screw terminal plug
Range : 10V to 40V DC or 24V AC
Consumption : 4W plus POE outputs (variable)

Environmental :

Operating Temp: -10 deg C to 50 deg C
Relative humidity : 85% non-condensing
Dimensions : L 90mm x W 110mm x H 33mm
(excluding wall mounts)
Weight : 255g
Compliance : CE, FCC, RoHS

Product Codes :

VCS-CSQ	CAMSWITCH Quad
VQ-24V-UK	24V DC Power Supply with UK lead
VQ-24V-EU	24V DC Power Supply with USA lead
VQ-24V-US	24V DC Power Supply with EU lead

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