

POE POWERED POE SWITCH
CAMSWITCH®
 4 PLUS



CAMSWITCH is a compact POE-powered network switch for edge-of-network extensions to IP cameras and other POE devices

Compact, rugged
 POE-powered POE
 switch for edge-of-
 network applications

CAMSWITCH 4 Plus is a compact, rugged 10/100 POE switch, delivering the power needed for reliable IP camera operation.

- | 10/100 switch with 4 x POE-out and 1 x POE-in ports
- | POE or DC power input for ultimate flexibility
- | Accepts most POE inputs including 802.3bt (90W)
- | 4 x POE outputs up to 30W (802.3at) per port
- | POE input allows remote network expansion
- | Rugged enclosure with removable wall mount clips





APPLICATION | A rugged IP network switch for POE cameras - fast to install with minimum disruption in colleges, office blocks, airports, factories...

Up to full 802.3at Power over Ethernet for IP cameras

CAMSWITCH 4 Plus network switch features full IEEE 802.3af/at POE compliance to support IP cameras and other POE-powered devices, and can be powered using a local power supply or a unique POE-powered input.

Power exactly where you need it

CAMSWITCH 4 Plus is a 5-port 10/100 switch including four POE outputs, and one port for non-POE downlink and optional POE input.

CAMSWITCH is compact and rugged, and requires no user configuration. Ethernet speed and cable type (straight-through or cross-over) are detected and negotiated automatically.

Up to 30W per POE port is delivered to compliant devices, within the limits of the total POE power budget available.

The total POE power available

depends on the power source (see table opposite for details and examples).

CAMSWITCH can also be used to connect other non-POE network devices and will automatically not enable POE to such equipment.

Versatile power input for maximum POE output

CAMSWITCH may be powered by a range of power sources including POE switches, POE injectors or directly via a 48V-57V DC power supply.

These power sources support a range of power budgets to suit different applications.

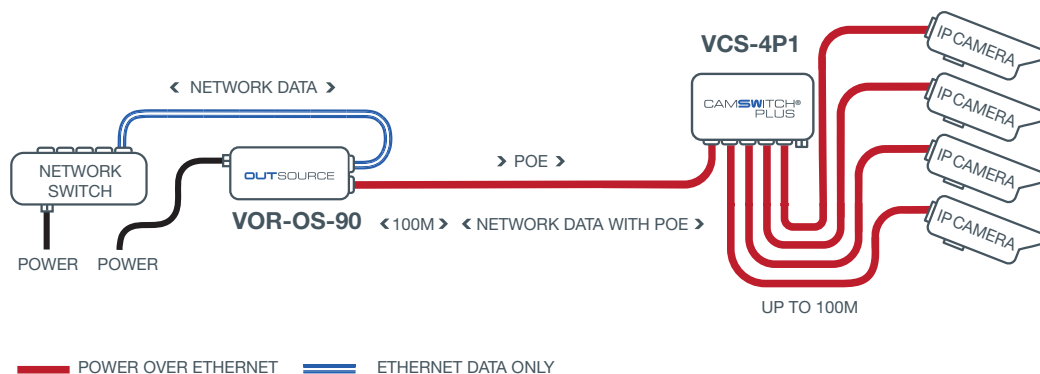
Veracity's class-leading POE power systems deliver the maximum power efficiency and reliability available within the POE power standards.

Using CAMSWITCH for range extension

When powered by POE, CAMSWITCH can be used as a range extender, with up to 100m to the switch and 100m from each switch port to each device. Used in this way, CAMSWITCH 4 Plus is effectively a 4-port OUTREACH Max network range extender (see the OUTREACH datasheets on the website for more detail).

Veracity's OUTREACH POE injectors or dedicated 57V PSUs are

CAMSWITCH 4 Plus Application Diagrams





A versatile POE-powered switch for edge-of-network applications

CAMSWITCH 4 Plus can be powered by a range of AC adaptors or POE sources to suit the POE output budget that you need.

recommended for maximum POE output and range, although a regular POE switch may be used for low POE power requirements or for data-only connections.

Wall mounting

CAMSWITCH is provided with snap-on mounting brackets which may be used to securely mount the device on a wall or inside a housing.

How to calculate the total power required for a camera installation:

1. Look up the power in watts from each camera's datasheet. Allow for any devices which may be added in the future.

2. Add these figures together to find the total budget required (Cable losses are already accounted for and do not need to be included).

3. Select a power source which can support the budget you require or greater.

All ports can be used for network connections. POE is only enabled to compliant devices; non-POE Ethernet equipment can simply be connected as normal. CAMSWITCH auto detects if it is a POE or Non-POE device, you want to connect, so you don't have to.

POE power budget

Each CAMSWITCH port is capable of delivering 30W output (25.5W to the powered device or PD).

The total POE power budget available depends on the power source used - see table below for details and example usage.










In POE terms, CAMSWITCH is both a PD (Powered Device), as it can be powered by POE, and a PSE (Power Sourcing Equipment) as it delivers POE through up to four ports.

As a PD (i.e. when powered by POE), CAMSWITCH can accept a maximum of 71W input (802.3bt standard).

CAMSWITCH uses up to 3W internally. For greater total power budgets, the Veracity 100W 57V DC or 240W 56V DC power supplies should be used.

Power Budget

Typical IP Cameras usage

POWER SOURCE	BUDGET	SUPPORTS IP CAMERAS (example)
VPSU-57V-800 Power Supply	40 watts	 OR 
VPSU-POE-100 Power Supply	100 watts	 OR 
VPSU-POE-240 Power Supply	240 watts	 OR 
802.3at POE Switch OR (VOR-OS-30)	10 watts	
VOR-OS-90 POE Injector	68 watts	 OR 

 Typical static IP camera (up to 8 watts)  PTZ dome using POE Plus (up to 25.5 watts)

TECHNICAL SPECIFICATION

CAMSWITCH®
4 PLUS

POWER INPUT	Power source DC connector DC input voltage POE standards Device power	Power over Ethernet input or DC power supply Detachable screw terminal 44-57V, Class II isolated (as an alternative to POE input) Compatible with IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt Compatible with OUTSOURCE 30 and OUTSOURCE 90 3 watts typical												
POE OUTPUTS	POE standard	IEEE 802.3af / IEEE 802.3at compliant Enhanced POE supports maximum range when used with OUTREACH Max, LONGSPAN or HIGHWIRE Powerstar (equivalent to using OUTSOURCE 30 or 57V power supply) Power budget limited by power source specified; see table on P3												
ETHERNET INTERFACE	Switch type POE input POE output POE standard (output) Connectors Data rates Cable types	5-port unmanaged 10/100 Ethernet switch 1-port, 71W maximum input (802.3bt standard) 4-ports up to 30W per port IEEE 802.3af / IEEE 802.3at compliant RJ45 10Base-T or 100Base-TX, full duplex, auto-configuring Straight-through or crossover Cat5, Cat5e or Cat6 cables												
LED INDICATORS	Green - POE ports Green - Non-POE ports Yellow	<table border="0"> <tr> <td>Constant</td> <td>POE enabled</td> <td>Off</td> <td>No POE requested</td> </tr> <tr> <td>Constant</td> <td>Power good</td> <td>Off</td> <td>No power</td> </tr> <tr> <td>Constant</td> <td>Ethernet link</td> <td>Flash</td> <td>Ethernet activity</td> </tr> </table>	Constant	POE enabled	Off	No POE requested	Constant	Power good	Off	No power	Constant	Ethernet link	Flash	Ethernet activity
Constant	POE enabled	Off	No POE requested											
Constant	Power good	Off	No power											
Constant	Ethernet link	Flash	Ethernet activity											
PHYSICAL/ENVIRONMENTAL	Dimensions Mounting (brackets inc.) Weight Operating temperature Relative humidity Compliance	L 110mm / 131mm with side clips W 68mm / 76-80mm inc. connectors H 22mm (excluding clips) 5mm mounting holes on 121mm centres 135g [4.8oz] -10°C to +50°C [14°F to 122°F] (normal operation) Up to 85%, non-condensing CE, FCC, RoHS, UKCA												
PRODUCT CODES	VCS-4P1 VPSU-57V-800 2-PIN-UK/EU/US VPSU-POE-100-UK/EU/US VPSU-POE-240-UK/EU/US VOR-OS-30-UK/EU/US VOR-OS-90-UK/EU/US	CAMSWITCH 4 Plus, 4+1 port 802.3at POE network switch Optional power supply for CAMSWITCH Plus, 40 watt budget 2-PIN C7 power cord with UK/ EU or US connector, with 1.8 metre cord Optional power supply for CAMSWITCH 4 Plus, 100W budget with power cord Optional power supply for CAMSWITCH Plus, 240W budget with power cord OUTSOURCE 30, enhanced POE injector, 30W budget with power cord OUTSOURCE 90, enhanced POE injector, 90W budget with power cord												



CAMSWITCH Mobile is also available in 4+1 and 8 + 2 models. They are compact, versatile POE switches that provide POE Plus from 12 or 24 volts.

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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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