

COMPACT 802.3AT POE 10/100 SWITCH
CAMSWITCH™
PLUS



CAMSWITCH Plus is a robust network switch which can be bolted to the wall or rack mounted



Compact, rugged and versatile POE switch for reliable IP camera installations

CAMSWITCH Plus delivers the power and practicality you need to effectively support Power over Ethernet equipment.

- | 802.3af POE / 802.3at POE Plus compliant outputs
- | 57V POE for maximum efficiency and range
- | POE input allows remote network expansion
- | 4+1 and 8+2 channel models
- | Rugged enclosure with wall and rack mount options



A rugged IP network switch for POE cameras - fast to install with minimum disruption in colleges, malls and airports

Up to full 802.3at Power over Ethernet for IP cameras

CAMSWITCH Plus 10/100 Ethernet switches feature 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 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 or optional POE input.

CAMSWITCH 8 Plus is a 10-port 10/100 switch featuring eight POE outputs, and two further ports, one of which has an optional POE input.

CAMSWITCH switches are compact and rugged, and require no user configuration. Ethernet speed, duplex and crossover are detected or negotiated automatically, and IEEE 802.3af/at POE is delivered automatically to compliant devices. For other equipment, all ports can be

used for regular non-POE Ethernet connections.

Wall-mount clips are included and CAMSWITCH 8 Plus is also compatible with Veracity's configurable rack mounting tray assembly system.

Versatile power input for maximum power budget

CAMSWITCH Plus may be used with Veracity's 57V DC power supply models, providing a range of power budgets to suit each installation.

Veracity's class-leading power system delivers the maximum power, efficiency, and reliability available within the POE standard. It also supports

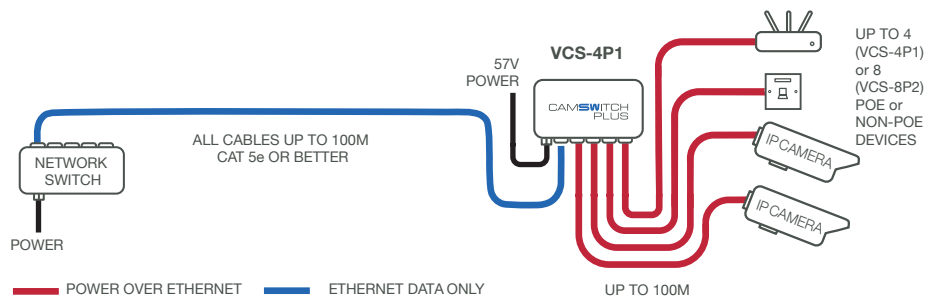
maximum range extension: using CAMSWITCH Plus is equivalent to adding an OUTSOURCE Plus injector or separate 57V power supply when delivering POE to OUTREACH Max, LONGSPAN or HIGHWIRE Powerstar.

Use POE power for extending range or adding devices

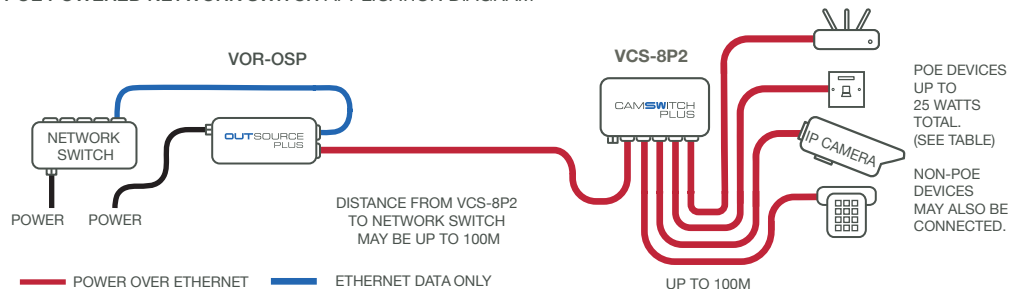
CAMSWITCH Plus can also be powered by POE, supporting remote positioning, range extension, or adding devices to existing cables. Veracity's OUTSOURCE Plus injector is recommended for maximum POE budget and range, however for applications with low POE requirements or data-only connections, a regular 802.3af switch may be used.

CAMSWITCH Plus Application Diagrams

VERSATILE POWER INPUT - NETWORK SWITCH APPLICATION DIAGRAM



POE POWERED NETWORK SWITCH APPLICATION DIAGRAM



Selecting the right power source for all your IP camera needs

CAMSWITCH Plus can be powered by a range of AC adapters or POE sources to suit the budget required:

How to work out 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 always be used for network connections. POE is only enabled to compliant devices; non-POE Ethernet equipment can simply be connected as normal.

POE power classes are not used by CAMSWITCH Plus, as they are often unreliable. However in the absence of other information, they can be used to estimate a camera's power requirement as follows:

- | a POE class 1 camera will draw 3.8 watts or less
- | a POE class 2 camera will draw 6.5 watts or less
- | a POE class 3 or 0 camera (full 802.3af) will draw 13 watts or less
- | a POE class 4 camera (full 802.3at) will draw 25.5 watts or less

Wall mounting

Neat snap-on mounting brackets permit secure wall mounting where this is required.

Rack mounting

CAMSWITCH 8 Plus is designed to fit in Veracity's configurable rack mounting system. A tray assembly allows up to 4 units to be mounted in only 1U of space.

Veracity's rackmount power system delivers up to 400 watts of power with optional redundancy.

Power Budget

Typical IP Cameras use



POWER SOURCE	BUDGET	SUPPORTS IP CAMERAS (example)
VPSU-57V-800 Power Supply	40 watts	  OR     
VPSU-57V-1500 Power Supply	78 watts	       
Veracity Rack Power System	400 watts	      
802.3af POE Switch	10 watts	
VOR-OSP OUTSOURCE Plus POE Injector	25 watts	  

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

TECHNICAL SPECIFICATION

CAMSWITCH™ 4 PLUS / 8 PLUS

POWER INPUT Power source DC connector DC voltage POE standard Device power	DC power supply or Power over Ethernet Detachable screw terminal Rear connector for rack-mount or 1500mA power supply (VCS-8P2) Adaptor cable included for 1500mA power supply (VCS-4P1) 44-57V, Class II isolated (Veracity power supply recommended) IEEE 802.3af or Veracity OUTSOURCE Plus (recommended for max budget) 3 watts typical (both models)												
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 Plus or 57V power supply) Power budget limited by power source specified; see table on prev. page												
ETHERNET INTERFACE Connector Rates Cable	RJ45, 5-port unmanaged 10/100 switch 10BASE-T or 100BASE-TX and duplex, auto-configuring for speed Straight through or crossover Cat 5, Cat 5e or Cat 6 patch VCS-8P2 supports VLAN trunking												
LED INDICATORS Green - POE Ports Green - Non POE Ports Yellow	<table> <tr> <td>Constant</td><td>POE enabled</td></tr> <tr> <td>Off</td><td>No POE requested</td></tr> <tr> <td>Constant</td><td>Power OK</td></tr> <tr> <td>Off</td><td>No power</td></tr> <tr> <td>Constant</td><td>Ethernet OK</td></tr> <tr> <td>Blink</td><td>Network activity</td></tr> </table>	Constant	POE enabled	Off	No POE requested	Constant	Power OK	Off	No power	Constant	Ethernet OK	Blink	Network activity
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PHYSICAL/ENVIRONMENTAL Dimensions Mounting (brackets inc.) Weight Operating temperature Relative humidity Compliance	L 110mm / 131mm with side clips W 64mm / 76-80mm inc. connectors H 22mm (VCS-4P1) / 40mm (VCS-8P2) 5mm mounting holes on 122mm centres 135g [4.8oz] (VCS-4P1) / 225g [7.9oz] (VCS-8P2) -10°C to 50°C [14°F to 122°F] Up to 85%, non-condensing CE, FCC, RoHS												
PRODUCT CODES VCS-4P1 VCS-8P2 VPSU-57V-800 VPSU-57V-1500 VPSU-57V-1U VOR-OSP	CAMSWITCH 4 Plus 4+1 port 802.3at POE network switch CAMSWITCH 8 Plus 8+2 port 802.3at POE network switch Optional power supply for CAMSWITCH Plus 40 watt budget Optional power supply for CAMSWITCH Plus 78 watt budget Rack-mountable 1U multi channel power supply Up to 400 watt budget OUTSOURCE Plus, enhanced POE injector 25 watt budget												



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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