

# POC2502-16CXP-2T-2S

## 16-PORT BNC IP & POWER OVER COAX POE-AT MANAGED SWITCH

### Overview

The IFS® Power over Coax Network Switches and media converters by Interlogix® are designed to transmit both Ethernet data and PoE over coax cable up to 1km (3,280 ft). This solution provides a cost-effective approach by reducing installation cost and increasing ROI by utilizing existing coax to migrate an existing analog video system to an IP video surveillance system.

The PoC Network Switches also provide built-in PD-alive monitor health and status of an IP camera. In addition, this solution eliminates the need for providing local power at an IP PoE camera location.

The solution contains the following modules:

- The POC2502-8CXP-2T-2S is an 8-port Power over Coax Managed Switch that supplies data and power transmission on coax via BNC ports. In addition, the two RJ45/SFP Gigabit combo ports provide a connection to an Ethernet network.
- The POC2502-16CXP-2T-2S is a 16-port Power over Coax Managed Switch. The switch supplies data and power transmission on coax via BNC ports as well as two RJ45/SFP Gigabit combo ports for connection to an Ethernet network.
- The POC252-1CX-1P Power over Coax Media Converter is for use at the camera end to convert the data/power from the coax. The switch provides 10/100Mbps data and POE-af/at compliant power on the RJ45 port for an IP camera.
- The POC252-1CXP-1T Power over Coax Media Converter transmits data and injects power over coax for use with the POC252-1CX-1P. This is used to deploy a single IP camera on a length of coax cable and a multi-port BNC switch is not needed.




### Standard Features

- 16 BNC ports
- IEEE 1901 standard for power compliant
- Wavelet-OFDM modulation
- 128-bit AES security encryption
- 2 x Gigabit RJ-45 Ports
- Auto-negotiation and auto-MDI/MDI-X
- Half-duplex back pressure and IEEE802.3x full-duplex pause-frame flow control
- 2 x Gigabit SFP fiber ports
- Power over coax
- Up to 36W insertion power per coax port
- 380W PoE Power
- Remote power up to 1km
- Full PoE management
- PD Alive Checking

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### Specifications

General		VLAN	
Technology	IEEE1901	VLAN	802.1Q tagged-based VLAN, Up to 256 VLAN groups, out of 4094 VLAN IDs, 802.1ad Q-in-Q tunneling, Voice VLAN, Protocol VLAN, Private VLAN (Protected port), GVRP
IGMP snooping	256 Group, Snooping v2, v3	Link Aggregation	IEEE 802.3ad LACP and static trunk, Supports 4 groups of 4-port trunk
IGMP query	Yes	Quality of Service (QoS)	8 mapping ID to 8 level priority queues, Port number, 802.1p priority, 802.1Q VLAN tag, DSCP field in IP packet, Traffic classification based, strict priority and WRR
Compatible with MCR rack	No	Multicasting/IGMP	IGMP (v2/v3) Snooping, IGMP Querier, Up to 256 multicast groups
Managed	Yes (Layer 2)	<b>LED Indicators &amp; Switch</b>	
Management interface	Web browser, Telnet, SNMP v1 & v2c, 1 x RS323-to-RJ45 serial port (1115200, 8, N, 1)	Reset Button	< 5 sec: System reboot, > 5 sec: Factory default
Jumbo frame support	10 K	<b>Electrical and Mechanical</b>	
Mac table	8 K	Power Input	100 to 240 VAC, 50/60Hz
VLAN, QoS	256, yes	Power Consumption (Full PoE load)	Max. 495 W / 1091 BTU
<b>Connections</b>		Dimensions (W x D x H)	440 x 300 x 44.5 mm, 1U height
Coax Ports	16	Weight	4.43kg
Connector	BNC	<b>Standards Compliance</b>	
RJ-45 ports	2	Regulatory Standards	FCC Part 15 Class A, CE
Port type	10/100/1000	IEEE Standards	IEEE 802.3 Ethernet
Fiber port	2		IEEE 802.3u Fast Ethernet
SFP speed	100/1000		IEEE 802.3ab Gigabit Ethernet
Supported SFP's	S2x and S3x series		IEEE 802.3z Gigabit Ethernet
Fault relay output	No		IEEE 802.3x Full-duplex flow control
<b>Physical</b>			IEEE 802.1Q VLAN
Physical dimensions	440 x 300 x 45 mm		IEEE 802.1X
Net weight	4.430 kg		IEEE 802.1p QoS
Colour	Black		IEEE 802.1D Spanning Tree Protocol
Switch fabric	11.2Gbps		IEEE 802.1w Rapid Spanning Tree Protocol
Mounting type	19" rack		IEEE 802.3af Power over Ethernet
<b>Environmental</b>			IEEE 802.3at Power over Ethernet Plus
Operating temperature	0 to +50°C	<b>Power over Ethernet</b>	
Storage temperature	-10 to 70°C	PoE Standard	IEEE 802.3af / 802.3at PoE
Relative humidity	0 to 95% noncondensing	PoE Power Budget	380W (Max)
Operating Temperature	0 to +50°C	PoE Power Output Per Port	Per Port 54V DC, Max. 36W
Storage Temperature	-10 to +70°C	<b>Part No. Description</b>	
Relative Humidity	0 to 95% (non-condensing)	POC2502-16CXP-2T-2S	16-PORT BNC IP & POWER OVER COAX POE-AT MANAGED SWITCH
<b>Electrical</b>			
Power supply type	100 to 240 VAC	800m	12.8W
Power consumption	36 W	1000m	10W
PoE/PoE+	PoE-at (Power over Coax)	* Based on RG-59 Bare Copper (BC) cable Data rate and power performance is subject to the quality of Coax cable used and is subject to external environmental factors	
PoE power budget	380 W	<b>Ordering Information</b>	
Redundant power	No		
<b>Physical Ports</b>			
10/100Base-T(x) Ports	BNC (16)		
GigE Uplink Ports	RJ-45 (2) & SFP (2)		
Port Configuration	AUTO MDI/MDI-X (RJ-45)		
Port Speed	Auto-negotiate (RJ-45)		
<b>Switch Performance</b>			
Switch Architecture	Store-and-Forward		
Switch Fabric	11.2 Gbps (non-blocking)		
MAC Address Table	8K entries, automatic source address learning and ageing		
Share Data Buffer	4.1Mb embedded memory for packet buffers		
Maximum Frame Size	10KBytes on Gig Uplink Ports		
Flow Control	Back pressure for Half-Duplex; IEEE 802.3x Pause Frame for Full-Duplex		
<b>Layer 2 Functions</b>			
Management Interface	Web browser, Telnet, SNMP v1 & v2c, 1 x RS323-to-RJ45 serial port (1115200, 8, N, 1)		
Port Configuration	Port enable/disable; Auto-negotiation; 10/100/1000Mbps full-and-half duplex mode selection; Flow control		
Port Status	Display each port's speed duplex mode, link status and flow control status. Auto negotiation status, trunk status		
Port Mirroring	TX/RX/Both; Many to 1 monitoring		