



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

Specifications

| Physical Ports | |
|--|---|
| 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) |
| Switch Performance | , tate negetiate (i.te. 10) |
| Switch Architecture | Store-and-Forward |
| Switch Fabric | 11.2 Gbps (non-blocking) |
| | 8K entries, automatic source address learning |
| MAC Address Table Share Data Buffer | and ageing 4.1Mb embedded memory for packet buffers |
| Maximum Frame Size | , . |
| Flow Control | 10KBytes on Gig Uplink Ports Back pressure for Half-Duplex; IEEE 802.3x Bayes Frame for Full Duplex |
| Layer 2 Functions | Pause Frame for Full-Duplex |
| Layer 2 Functions | Web browser Telpot SNMD v1 9 v2e 1 v |
| 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 |
| 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 |
| Link Aggregation | IEEE 802.3ad LACP and static trunk, Supports 4 groups of 4-port trunk |
| 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 |
| Multicasting/IGMP | IGMP (v2/v3) Snooping, IGMP Querier, Up to 256 multicast groups |
| LED Indicators & Switch | |
| | |
| Reset Button | < 5 sec: System reboot, > 5 sec: Factory default |
| Reset Button Electrical and Mechanical | < 5 sec: System reboot, > 5 sec: Factory default |
| | < 5 sec: System reboot, > 5 sec: Factory default 100 to 240 VAC, 50/60Hz |
| Electrical and Mechanical | |
| Electrical and Mechanical Power Input Power Consumption (Full | 100 to 240 VAC, 50/60Hz |
| Electrical and Mechanical Power Input Power Consumption (Full PoE load) | 100 to 240 VAC, 50/60Hz Max. 495 W / 1091 BTU |
| Electrical and Mechanical Power Input Power Consumption (Full PoE load) Dimensions (W x D x H) | 100 to 240 VAC, 50/60Hz Max. 495 W / 1091 BTU 440 x 300 x 44.5 mm, 1U height |
| Electrical and Mechanical Power Input Power Consumption (Full PoE load) Dimensions (W x D x H) Weight | 100 to 240 VAC, 50/60Hz Max. 495 W / 1091 BTU 440 x 300 x 44.5 mm, 1U height |
| Electrical and Mechanical Power Input Power Consumption (Full PoE load) Dimensions (W x D x H) Weight Environmental | 100 to 240 VAC, 50/60Hz Max. 495 W / 1091 BTU 440 x 300 x 44.5 mm, 1U height 4.43kg |
| Electrical and Mechanical Power Input Power Consumption (Full PoE load) Dimensions (W x D x H) Weight Environmental Operating Temperature | 100 to 240 VAC, 50/60Hz Max. 495 W / 1091 BTU 440 x 300 x 44.5 mm, 1U height 4.43kg 0 to +50°C |
| Electrical and Mechanical Power Input Power Consumption (Full PoE load) Dimensions (W x D x H) Weight Environmental Operating Temperature Storage Temperature Relative Humidity | 100 to 240 VAC, 50/60Hz Max. 495 W / 1091 BTU 440 x 300 x 44.5 mm, 1U height 4.43kg 0 to +50°C -10 to +70°C |
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| Electrical and Mechanical Power Input Power Consumption (Full PoE load) Dimensions (W x D x H) Weight Environmental Operating Temperature Storage Temperature Relative Humidity Standards Compliance Regulatory Standards IEEE Standards | 100 to 240 VAC, 50/60Hz Max. 495 W / 1091 BTU 440 x 300 x 44.5 mm, 1U height 4.43kg 0 to +50°C -10 to +70°C 0 to 95% (non-condensing) FCC Part 15 Class A, CE IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3z Gigabit Ethernet IEEE 802.3x Full-duplex flow control IEEE 802.1Q VLAN IEEE 802.1X IEEE 802.1D Spanning Tree Protocol IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus |

IP Over Coax Interface

| Cabling | Coaxial cable: 75 ohm, RG-6/U cable (improved performance) |
|--|---|
| Communication Standard | IEEE1901 |
| Modulation Type | Wavelet-OFDM |
| Security | 128-bit AES encryption |
| Frequency Band | 2 to 28 MHz |
| Data Rate (Upload/ Download)* | |
| 200m | 93 / 93 Mbps |
| 400m | 93 / 92 Mbps |
| 600m | 92 / 88 Mbps |
| 800m | 83 / 75 Mbps |
| 1000m | 74 / 55 Mbps |
| Typical Power Over Coax* | |
| 200m | 23.2W |
| 400m | 20.1W |
| 600m | 16.2W |
| 800m | 12.8W |
| 1000m | 10W |
| * 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 |

Ordering Information

| Part No. | Description |
|---------------------|---|
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