XC51 series

EPoC Managed RX Switches

802.1Q VLAN | RING | DHCP Server | Fiber-Optical

Coax Surge Protection | Ethernet over Coax | Power over Coax | Gigabit

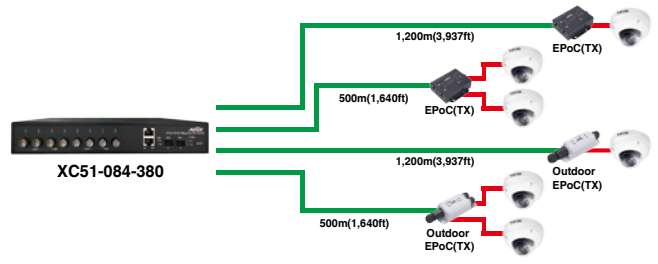
The EPoC (Ethernet & Power over Coaxial) Managed Switch is the best networking solution for transferring analog to IP cameras. This product line integrates managed switch and EPoC Rx module into one device, which designs for managing IP cameras with smart features, including EPoC port power on/off and layer 2 switch functions.

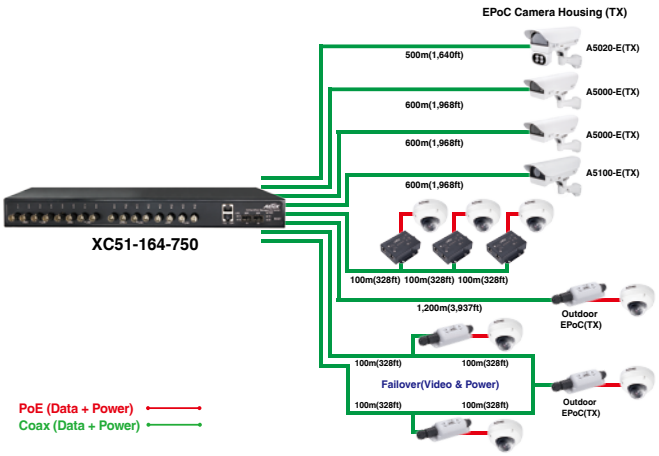
By adopting AETEK EPoC lite managed Rx switch, the customer now can deploy IP surveillance up to 1200m without changing their legacy coaxial cable.

Features

- Layer 2 Switch
  - 802.1d (STP), 802.1w (RSTP), 802.1s (MSTP)
  - Loop protection
  - SNMP
  - QoS
  - VLAN
  - Ethernet cable length measurement
  - DHCP Server
- EPoC Power Management
  - Auto Pink Check
  - EPoC TX Adapter List

Applications





IP Camera Controller Features

Device List

Show 10 entries Search:

Device Type	Model Name	Device Name	MAC	IP Address
EPoC Tx Adapter	XE62-120-TX	XE62-120-TX	aa:b0:52:62:12:21	
EPoC Tx Adapter	XE10-110-TX	XE10-110-TX	68:8d:b6:00:1f:c5	192.168.120.20

Showing 1 to 2 of 2 entries Previous 1 Next

Auto Ping Check Configuration

Auto Ping Check Configuration

Ping Check ◉ Enable ○ Disable

Port Configuration

Port	Ping IP Address	Start Time	Interval Time	Retry Time	Failure Log	Failure Action	Reboot Time
1	1.1.1.1	30	27	4	error:0, total:0	Reboot	13
2	2.2.2.2	30	30	3	error:0, total:0	Nothing	15
3	0.0.0.0	30	30	3	error:0, total:0	Nothing	15
4	0.0.0.0	30	30	3	error:0, total:0	Nothing	15
5	0.0.0.0	30	30	3	error:0, total:0	Nothing	15

Power Status

Power Status

Port	Status	Voltage (V)	Current (A)	Watt (W)
01	Enable	54.65	0.00	0.00
02	Enable	54.65	0.06	3.18
03	Enable	54.65	0.00	0.00
04	Enable	54.65	0.00	0.00
05	Enable	54.65	0.00	0.00
06	Enable	54.65	0.06	3.27
07	Enable	54.65	0.00	0.00
08	Enable	54.65	0.00	0.00

Power Control

Power Control

All Port	○ ON	○ OFF
Port 1	◉ ON	○ OFF
Port 2	◉ ON	○ OFF
Port 3	◉ ON	○ OFF
Port 4	◉ ON	○ OFF
Port 5	◉ ON	○ OFF
Port 6	◉ ON	○ OFF
Port 7	◉ ON	○ OFF
Port 8	◉ ON	○ OFF

Apply

Technical Specifications - Software

EPoC Management	
Device List	Discover IP cameras complying ONVIF automatically
Auto Ping Check ConfigurationPower Status	Generate Topology maps to manage IP cameras
Power Status	Real time to verify the cable status
Power Control	Reboot EPoC TX device, EPoC Power configuration, EPoC Power status
Layer 2 Switching Specifications	
Spanning Tree Protocol (STP)	MAC Bridges Standard Spanning Tree 802.1d, Rapid Spanning Tree (RSTP) 802.1w, Multiple Spanning Tree (MSTP) 802.1s
IP/Mac Port Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad , Static aggregation.
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs), Port-based VLAN, 802.1Q tag-based VLAN
IGMP v1/v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters.
Layer 3 Switching Specifications	
DHCP Server	Assign IP to DHCP clients
Security	
Port Security	Locks MAC addresses to ports, and limits the number of learned MAC address
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
Loop Protection	To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.
QoS	
Classification	Port based, 802.1p VLAN priority based
Bandwidth Control	Ingress policer, Egress shaping and rate control, Per port
Management software	
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
IEEE 802.1ab (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network, Support LLDP-MED extensions
Web GUI Interface	Built-in switch configuration utility for browser-based device configuration
SNMP	SNMP version1, 2c
Flow Control	The IEEE 802.3x standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats
Firmware Upgrade	Web browser upgrade HTTP and TFTP
NTP	Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	System, HTTP, DHCP Client, Cable Diagnostics, Syslog, IPV4 Management

Technical Specifications-Hardware

	XC51-084-380	XC51-164-750
Interface/Distance		
Coaxial BNC	75 ohm x 8	75 ohm x 16
Gigabit Ethernet RJ45	2	2
Gigabit Ethernet SFP	2	2
Transmission mode	RX mode	RX mode
Maximum TX quantity	14	28
MAX.(Power+Data) Distance	9.7W@1,200m(3,937 ft)	9.7W@1,200m(3,937 ft)
Cable Type	75 ohm RG59/RG6/RG11 Coax	75 ohm RG59/RG6/RG11 Coax
Phy Rate	600 Mbps	600Mbps
Power Specifications		
Power supply	Internal 380W Input: 100-240VAC	Internal 750W Input: 100-240VAC
Unit Power Consumption	20W	30W
EPoC Output Power /each Coax Port	54VDC@60W	54VDC@60W
EPoC Power Budget	360W	720W
Surge Protection /each Coax Port	Built-in 6KV	Built-in 6KV
Physical Specifications		
Dimensions (LxWxH)	280 x 220 x 44 mm (11x8.66x1.73")	440 x 290 x 44 mm (17.32x11.41x1.73")
Weight	3.5 kg (7 lb)	6 kg (13 lb)
Connectors	BNCx8, RJ45x2,SFPx2 100-240VAC power input	BNCx16, RJ45x2,SFPx2 100-240VAC power input
Mounting Type	19” rack mount	19” rack mount
Environmental Specifications		
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-20°C ~ 85°C (-4°F ~ 185°F)	-20°C ~ 85°C (-4°F ~ 185°F)
Operating Humidity	5% ~ 95% non-condensing	5% ~ 95% non-condensing
Certifications		
EMC	CE, FCC, VCCI, C-Tick	CE, FCC, VCCI, C-Tick
Safety	EN60950-1	EN60950-1
Surge	EN61000-4-5	EN61000-4-5
LEDs		
LAN	Ethernet status	Ethernet status
PWR	RX Switch power status	RX Switch power status
LINK	Rx Switch and EPoC TX device connect status	Rx Switch and EPoC TX device connect status
POC	Power over Coaxial cable status	Power over Coaxial cable status

Ordering Information

EPoC Managed RX Switches			
	**XC51-084-380** • 8xBNC coax ports + 2x Gigabit RJ45 ports + 2xGigabit SFP ports • 100~240VAC, 380W Power budget		• **XC51-164-750** • 16xBNC coax ports • 100~240VAC, 750W Power budget

Related Product

SFP Transceiver

SFP-SX-X5

1.25G Multi-Mode SFP
850nm, 0.5KM
0°C~70°C

SFP-SX-02

1.25G Multi-Mode SFP, LC
1300/1310nm, 2KM
0°C ~ 70°C

SFP-LX-10

1.25G Single-Mode SFP, LC
1310nm, 10KM
0°C ~ 70°C

SFP-LX-40

1.25G Single-Mode SFP, LC
1310nm, 40KM
0°C ~ 70°C

SFP-TX-X1

1000BaseT, SFP to RJ45
100M
0°C ~ 70°C

EPoC Indoor TX Adapter Series

XE10-110-TX
1-to-1 EPoC adapter(TX)

XE12-120-TX
1-to-2 EPoC adapter(TX)

EPoC Outdoor TX Adapter Series

XE22-110-TX
1-to-1, Outdoor EPoC adapter(TX)with IP67 / IK10 / 6KV Surge protection

XE22-120-TX
1-to-2, Outdoor EPoC adapter(TX) with IP67 / IK10 / 6KV Surge protection

Smart IPTX

XE52-120-TX

XE62-120-TX

EPoC Camera Housing Series

A5000-E
EPoC Camera Housing

A5020-E
EPoC Camera Housing
Germanium window

A5100-E
EPoC Camera Housing
with IR illuminator
(MAX: 50m)

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