

C70 series

Master L2 Plus Managed Switches



















C70-00F-01

The C70 series of Master L2 Plus Managed Switch, designed as a root switche to manage outdoor H80 series or indoor C50 series PoE Switch, enable them to the IP surveillance network. The C70 series provides multi-port Gigabit (10M/100M/1G) or SFP transceiver slots for flexible link. There are three sub models, including 10-port & 26-port gigabit & 24-port gigabit with 4-port 10G. The C70 series keeps L2 plus & basic L3 switch functions such as static route, QoS, security, spanning tree, cable length measurement, and SNMP v1/v2c/v3 like the H80 series.

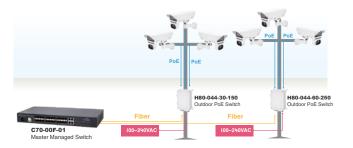
Features

- · Layer 2 Switch
 - Fast recover <20ms of R-ring(C70-00F-01)
 - IPV4 and IPV6 protocol
 - IPV4 static route
 - 802.1d (STP), 802.1w (RSTP), 802.1s (MSTP)
 - SNMP v1/v2c/v3
 - Ethernet cable length measurement
 - DHCP Server
- IP Surveillance Controller
 - Automatically discovery for ONVIF camera
 - Generate camera topology automatically
 - Graphic grouping VLAN
 - Cable diagnostic
 - Topology view/Floor view/Google map
 - Monitor/Configure/Manage ONVIF camera remotely
- Flexible SFP transceiver ports for uplink
- Support 10G SFP+ ports for uplink (C70-00F-01)
- Supports 10/100/1000Mbps data rates
- IEEE 802.3az Energy Efficient Ethernet standard for green power

Applications







Technical Specifications - Software

Auto Discovery Topology View Traffic Monitor Cable Diagnostic VLAN Grouping	User Interface Specifications Discover H80 series PoE Switches and IP cameras complying ONVIF automatically Generate Topology map to manage H80 series PoE Switches & IP cameras complying ONVIF Comprehensive chart to show traffic status			
Topology View Traffic Monitor Cable Diagnostic	Generate Topology map to manage H80 series PoE Switches & IP cameras complying ONVIF			
Traffic Monitor Cable Diagnostic				
Cable Diagnostic	Comprehensive chart to show traffic status			
-	Comprehensive chart to show traffic status			
VLAN Grouping	Real time to verify the cable status			
	Easy grouping IP cameras thru topology map			
Layer 2 Switching Specific	ications ————————————————————————————————————			
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d, Rapid Spanning Tree (RSTP) 802.1w, Multiple Spanning Tree (MSTP) 802.1s			
Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad up to 26 groups and up to 4 ports per group			
VLAN	Port-based VLAN, 802.1Q tag-based VLAN, MAC-based VLAN, Management VLAN, Private VLAN Edge (PVE), Q-in-Q (double tag) VLAN, Voice VLAN, GARP VLAN Registration Protocol (GVRP)			
DHCP Relay	Relay of DHCP traffic to DHCP server in different VLAN, Works with DHCP Option 82			
IGMP v1/v2/v3 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters, Supports 1024 multicast groups			
IGMP Querier	Support a Layer 2 multicast domain of snooping, switches in the absence of a multicast router			
IGMP Proxy	IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router			
MLD v1/v2 Snooping	Delivers IPv6 multicast packets only to the required receivers			
Multicast VLAN Registration	Manually configured VLAN, called the multicast VLAN, to forward multicast traffic over Layer 2 network in conjunction with IGMP snooping			
Layer 3 Switching Specific	ications			
IPv4 Static Routing	IPv4 Unicast: Static routing			
IPv6 Static Routing	IPv6 Unicast: Static routing			
DHCP Server	Assign IP to DHCP clients			
Security				
Secure Shell (SSH)	Secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported			
Secure Sockets Layer (SSL)	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch			
IEEE 802.1X	IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions,			
Layer 2 Isolation Private	Supports IGMP-RADIUS based 802.1X, Dynamic VLAN assignment			
VLAN Edge	PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks			
-	Locks MAC addresses to ports, and limits the number of learned MAC address			
IP Source Guard	Prevents illegal IP address from accessing to specific port in the switch			
RADIUS/TACACS+	Supports RADIUS and TACACS+ authentication. Switch as a client			
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port			
DHCP Snooping	A firewall between untrusted hosts and trusted DHCP servers			
ACLs	Supports up to 512 entries. Drop or rate limitation based on Source and destination MAC, VLAN ID or IP address, protocol, port, Differentiated services code point (DSCP) / IP precedence TCP/ UDP source and destination ports 80.21 pp riority Ethernet type Internet Control Message Protocol (ICMP) packets TCP flag			
Loop Protection	Prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations			
QoS				
Hardware Queue	8 hardware queues			
Scheduling	Strict priority and weighted round-robin (WRR), Queue assignment based on DSCP and class of service			
Classification	Port based, 802.1p VLAN priority based, IPv4//Pv6 precedence / DSCP based, Differentiated Services (DiffServ), Classification and re-marking ACLs			
Rate Limiting	Ingress policer, Egress shaping and rate control, Per port			
Management software				
Dying Gasp	Support Dying Gasp notification on loss of Power			
HW Monitoring	Temperature Detection and Alarm			
HW Watchdog	Resume operation from CPU hang up			
IEEE 1588v2 PTP	Precision Time Protocol			
Remote Monitoring (RMON)	RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis			
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.			
UPnP	The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play			
s-Flow	The industry 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			
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			
CLI	configure/manage switches in command line modes			
Dual Image	Independent primary and secondary images for backup while upgrading			
CNIMD	SNMP v1, v2c and v3 supporting traps, and SNMP v3 user-based security model (USM)			
SNMP				
SNMP Firmware Upgrade	Web browser upgrade (HTTP/ HTTPs) and TFTP			
	Web browser upgrade (HTTP/ HTTPs) and TFTP A networking protocol for clock synchronization between computer systems over packet-switched			

Technical Specifications - Hardware

	C70-00A-01	C70-00E-01	C70-00F-01
Network Specifications			
Gigabit Ports (RJ45)	8	24	-
Gigabit Ports (SFP)	-	-	20
Gigabit RJ45/SFP Combo Ports	2	2	4
1G/10G SFP+ Ports	-	-	4
Total Ports	10	26	28
Forwarding Capacity	14.9Mpps	38.7Mpps	95.232Mpps
Mac Table	8K	8K	32K
Jumbo Frames	9,216 Bytes	9,216 Bytes	10,056 Bytes
Switching Capacity	20Gbps	52Gbps	128Gbps
Power Specifications			
Input Voltage	100VAC ~ 240VAC	100VAC ~ 240VAC	100VAC ~ 240VAC / 24-48VDC
Mechanical Specifications			
Dimensions (WxHxD)	220 x 134 x 44 mm	442 x 211 x 44 mm	442 x 211 x 44 mm
Weight	1 KG	2.6 KG	3.1 KG
Connectors	RJ45x10, SFP Slot x2, Console RJ45x1	RJ45x26, SFP Slot x2, Console RJ45x1	RJ45x4, SFP Slot x24, SFP+ Slot x4, Console DB9x1
Environmental Specifications			
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	-20°C~60°C (-4°F~140°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)	-20°C ~ 70°C (-4°F ~ 158°F)	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	10% ~ 90% non-condensing	10% ~ 90% non-condensing	5% ~ 90% non-condensing
Certifications			
EMC	CE, FCC, C-Tick	CE, FCC, C-Tick	CE, FCC, C-Tick
Safety	EN60950-1,IEC60950-1	EN60950-1,IEC60950-1	EN60950-1,IEC60950-1

Ordering Information



Optional Accessories

