

C60-244-30-600U



Uninterruptible Indoor L2 PRO 24-Port Gigabit PoE+ Switch with Battery Backup Power



The C60-244-30-600U is an L2 PRO Managed PoE Switch designed for IP surveillance and networking applications. It features 24-port Gigabit PoE with up to 30W per port, two RJ45/SFP combo ports, and two additional SFP slots (100M/1G) to support flexible uplink options. With a 420W PoE power budget, it efficiently powers a wide range of IP cameras and PoE-enabled devices across enterprise and security environments.

Built-in battery backup system sets the C60-244-30-600U apart, which guarantees uninterrupted PoE output during AC power outages. This eliminates the risks associated with shared UPS systems, such as power hijacking or overload, and ensures seamless operation of IP surveillance infrastructure. It's an ideal solution for critical environments where consistent uptime is essential, including government facilities, transportation hubs, and commercial buildings.

The NTS (Network Topology View) enhances remote network management by automatically detecting and mapping connected devices in a real-time topology view. Features like remote cable diagnostics, PoE reboot, power output and battery status monitoring are all accessible via the intuitive web-based GUI. The interface also provides detailed information, including throughput, power consumption, and device list. The instant alerts for low battery voltage and power source changes help administrators quickly respond to power-related issues, ensuring greater control over surveillance networks.

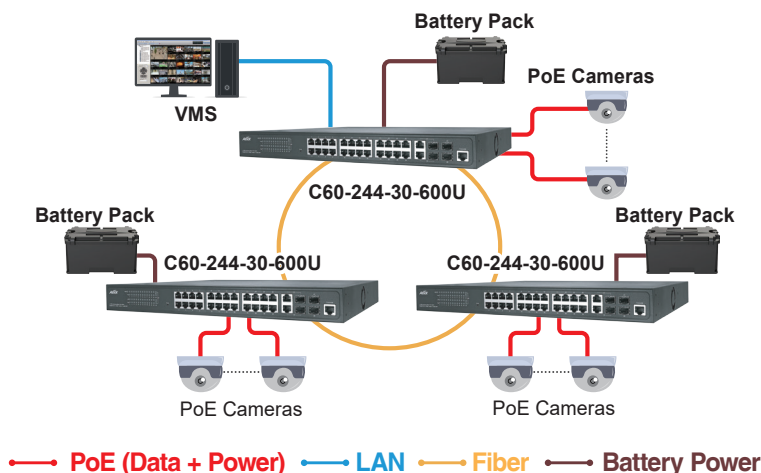
Features

- Layer 2 Switch
 - 802.1d (STP), 802.1w (RSTP), 802.1s (MSTP)
 - Loop protection
 - SNMP v1/v2c/v3
 - QoS
 - VLAN
 - Ethernet cable length measurement
 - DHCP Server
- Network Topology System (NTS)
 - Auto-discovery of ONVIF cameras
 - Establish topology map automatically: Topology View, Floor View, Google Map View
 - Cable diagnostic & reboot camera remotely
 - PoE configuration and power management
 - Monitor, configure & manage ONVIF cameras via web UI
- Flexible SFP transceiver ports for uplink
- Up to 30W per port for IEEE 802.3af/at compliant devices
- Supports 10/100/1000Mbps data rates
- Support Auto-MDI/MDIX
- Built-in 6KV surge protection for each PoE port
- IEEE 802.3az Energy Efficient Ethernet standard for green power
- 19" Rackmount installation
- Supports battery input interface for external battery sets

Applications

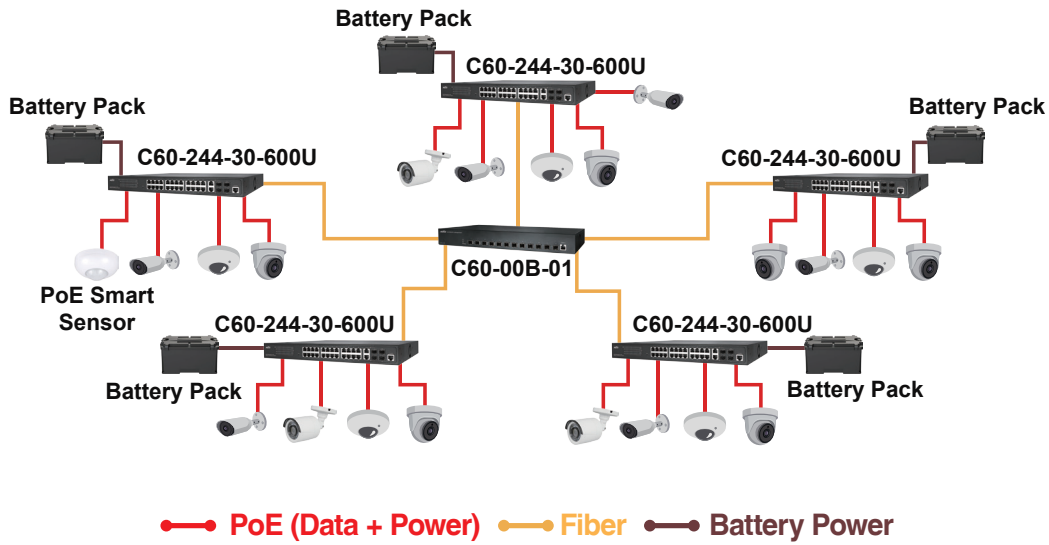
Ring Topology

Built-in battery backup and ring failover ensure uninterrupted video recording during both AC loss and network disconnection.



Star Topology

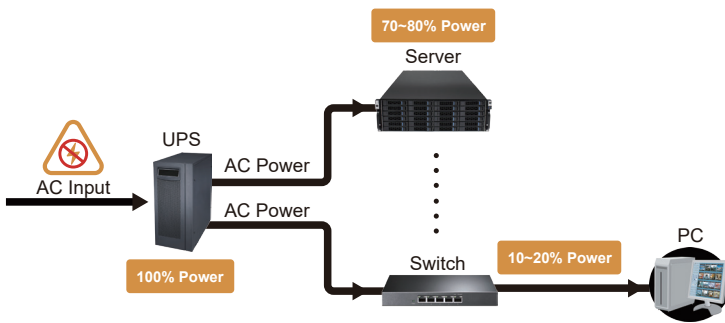
Centralized management with built-in battery backup maintains continuous PoE power and system stability during AC power outages.



Backup Power Comparison

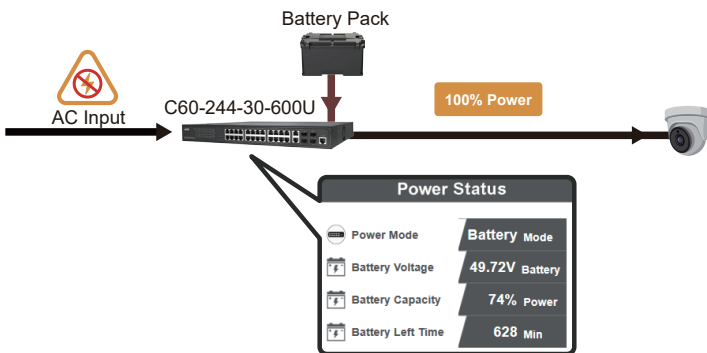
Dedicated backup power eliminates the risk of shared UPS overload and power hijacking.

Shared Backup Power



- ✗ Shared backup power increases the risk of overload
- ✗ Risk of power hijacking
- ✗ Potential network interruptions and downtime

Dedicated Battery Backup Power



- ✓ Dedicated backup power guarantees continuous PoE output
- ✓ Isolated power source eliminates the risk of power hijacking
- ✓ High uptime

Battery Backup Calculator – C60-244-30-600U with Battery Backup

Charging Current	Battery	Power Consumption Full Charge Time	Approximate Backup Time at Full Load					
			60W	120W	180W	240W	300W	360W
3A	48V/7Ah Sealed Lead Acid Battery	2 hr 28 mn	2 hr 49 mn	1 hr 19 mn	44 mn	25 mn	14 mn	6 mn
	48V/18Ah Sealed Lead Acid Battery	3 hr 32 mn	8 hr 9 mn	4 hr 16 mn	2 hr 47 mn	2 hr 0 mn	1 hr 30 mn	1 hr 10 mn

*Calculation is based on Yuasa NP7-12 / NP18-12, 48V 4S1P @ 25 °C

Power Status



Device Dashboard

Device Type: PoE Switches

Device Name: C60-244-30-600U

Model Name: C60-244-30-600U

MAC Address: 68:8D:B6:09:ED:6F

IP Address: 192.168.1.100

Http Port: 80

PoE Supply: 11.8 W

PoE Used: 11.8 W

API Account: admin

API Password: ****

WAN Address:

WAN Port:

Buttons: Close, Apply

Bottom: Upgrade, PoE Config, Power Status

AC Power Mode

Power Status

Device Type: PoE Switches

Device Name: C60-244-30-600U

Model Name: C60-244-30-600U

MAC Address: 68:8D:B6:09:ED:6F

IP Address: 192.168.1.100

Power Status

Power Mode: AC Mode

Battery Voltage: --V Battery

Battery Capacity: --% Power

Battery Left Time: -- Min

Power Status

Device Type: PoE Switches

Device Name: C60-244-30-600U

Model Name: C60-244-30-600U

MAC Address: 68:8D:B6:09:ED:6F

IP Address: 192.168.1.100

Power Status

Power Mode: Battery Mode

Battery Voltage: 51.82V Battery

Battery Capacity: 99% Power

Battery Left Time: 881 Min

Battery Input Mode

Switch Dashboard

AETEK C60-244-30-600U

Switch: NTS

Graphical Monitoring

Topology View

Device Dashboard

Device Type: PoE Switches

Device Name: C60-244-30-600U

Model Name: C60-244-30-600U

MAC Address: 68:8D:B6:09:ED:6F

IP Address: 192.168.1.100

Http Port: 80

PoE Supply: 11.8 W

PoE Used: 11.8 W

API Account: admin

API Password: ****

WAN Address:

WAN Port:

Buttons: Close, Apply

Bottom: Upgrade, PoE Config, Power Status

Camera Dashboard: Cable Diagnostics & PoE Reboot

Device Dashboard

Device Type: IP Cameras

Device Name: QND-8011

Model Name: QND-8011

MAC Address: E4:30:22:1A:B8:0A

IP Address: 192.168.1.35

Http Port: 80

PoE Used: 3.9 W

WAN Address:

WAN Port:

Buttons: Close, Apply

Bottom: Login, Diagnostics, PoE Reboot

Diagnostics

Diagnostics

Device Type: IP Cameras

Device Name: QND-8011

Model Name: QND-8011

MAC Address: E4:30:22:1A:B8:0A

IP Address: 192.168.1.35

Icon	Diagnostic
1	AETEK C60-244-30-600U C60-244-30-600U 192.168.1.100 68:8D:B6:09:ED:6F Port: 3 ✓ Connection ok Speed: 1G ✓ Cable Status ok 0.00(m)
2	AETEK C62-050-30-A C62-050-30-A 192.168.1.110 68:8D:B6:06:61:FB Port: 1 ✓ Connection ok Speed: 100M ✓ Cable Status ok 2.00(m)
3	Hanuha Technwin QND-8011 QND-8011 192.168.1.35 E4:30:22:1A:B8:0A

PoE Reboot



Reboot



Topology View

Topology View Home > Graphical Monitoring > Topology View

The topology view displays a network of devices connected to a central switch. The devices include:

- Switch 1:** C60-244-30-600U, C60-244-30-600U, 68:8D:B6:09:ED:6F, 192.168.1.100, PoE Supply 10.90 W
- Switch 2:** C62-050-30-A, C62-050-30-A, 68:8D:B6:06:61:FB, 192.168.1.110, Port from P[3] to P[6], PoE Supply 6.80 W, DC Power Supply 1.36 W
- Switch 3:** XC60-084-91-770, XC60-084-91-770, 68:8D:B6:60:84:91, 192.168.1.11, Port from P[26] to P[9], PoE Supply 9.30 W
- Computer 1:** Milestone XProtect General Computer, CC:96:E5:8A:A0:D5, 192.168.1.253, Port 25
- Camera 1:** QND-8011, Hanwha Techwin QND-8011, E4:30:22:1A:B8:0A, 192.168.1.35, Port 1, PoE Used 3.40 W
- Camera 2:** AXIS M3068-P, M3068-P, AC:CC:8E:F8:97:47, 192.168.1.102, Port 2, PoE Used 3.40 W
- Surge Protector:** SD-504, AETEK SD-504, 68:8D:B6:00:00:10, 192.168.1.3, Port 5

Device type filter: Show All
 Search:
 Update: 2025/05/29 09:16:35 OK. 0.3s

Floor Map View

Floor View Home > Graphical Monitoring > Floor View

The floor map view shows the physical layout of the building with numbered markers (1-5) indicating device locations. The markers correspond to the devices listed in the Device List.

Device type filter: Show All
 Search:
 Update: 2025/05/29 11:23:09 OK. 0.6s

Device List

Device List Home > Management > Device List

Auto Refresh

Show entries Search:

Status	Device Type	Model Name	Device Name	MAC	IP Address
Online	PoE Switches	C60-244-30-600U	C60-244-30-600U	68:8D:B6:09:ED:6F	192.168.1.100
Online	PoE Switches	C62-050-30-A	C62-050-30-A	68:8D:B6:06:61:FB	192.168.1.110
Online	IP Cameras	QND-8011	QND-8011	E4:30:22:1A:B8:0A	192.168.1.35
Offline	Modular Surge Protectors	SD-504	SD-504	68:8D:B6:00:00:10	192.168.1.3
Online	IP Cameras	M3068-P	AXIS M3068-P	AC:CC:8E:F8:97:47	192.168.1.102
Online	General Computers	General Computer	Milestone XProtect	CC:96:E5:8A:A0:D5	192.168.1.253
Online	EPOX Switches	XC60-084-91-770	XC60-084-91-770	68:8D:B6:60:84:91	192.168.1.11

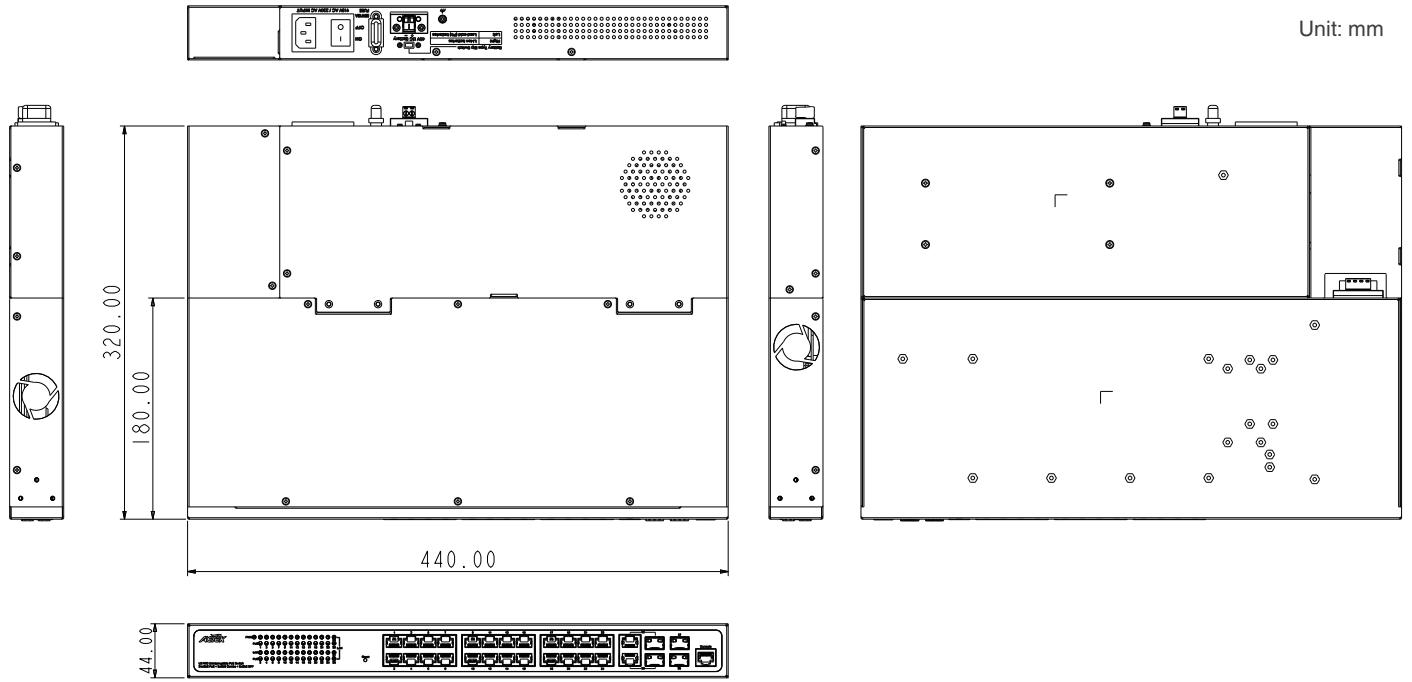
Technical Specifications - Software

IP Surveillance Graphical User Interface Specifications	
Auto Discovery	Discover IP cameras complying ONVIF automatically
Topology View	Generate Topology maps to manage IP cameras
Traffic Monitor	Comprehensive chart to show traffic status
Cable Diagnostic	Real time to verify the cable status
PoE Management	Reboot IP camera, alive checking, PoE configuration, PoE status, Link status
PoE Management	
Port Configuration	Supports per port PoE configuration function
PoE Scheduling	Supports per port PoE scheduling to turn on/off the PoE devices (PDs).
Auto-checking	Check the link status of PDs. Reboot PDs if there is no responses
Power Delay	The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs.
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
IEEE 802.1ab (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network
Web GUI Interface	Built-in switch configuration utility for browser-based device configuration
SNMP	SNMP version1, 2c, 3
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, HTTPS, DHCP Client, Cable Diagnostics, Syslog, IPV4/IPV6 Management

Technical Specifications-Hardware

C60-244-30-600U	
Network	
Total Gigabit Ethernet Ports	28
Gigabit Ethernet 802.3af/at/bt PoE Ports	24 x 30W at PoE
Gigabit Ethernet SFP Ports (100M/1G)	2
Gigabit Ethernet RJ45/SFP Combo Ports	2
Forwarding Capacity	38.688Mpps
Mac Table	8K
Jumbo Frames	9,216 Bytes
Switching Capacity	56 Gbps
Power	
Input Voltage	90~132VAC or 180~264VAC
Output Power per PoE Port	PoE IEEE 802.3af (Max. 15.4W) PoE+ IEEE 802.3at (Max. 30W)
Output PoE Power Pin Assignment	12(+), 36(-)
System Power Consumption (without PoE)	10W
PoE Output Power Budget	420W
Surge Protection per PoE Port	6KV
Battery	
Battery Type	Lead Acid Batteries (Default), Li-ion Batteries
Battery Charger	55.2VDC / 3A
Battery Cutoff Voltage	43V±0.5V
Battery Reverse Polarity	Automatically protected against reverse polarity. Normal operation resumes once the fault is corrected.
Mechanical	
Dimensions (W x D x H)	440 x 320 x 44 mm
Weight	4.8 kg (10.58 lb)
Console	RJ45
Reset Button	2~7 sec.: Restart 7~12 sec.: Restore default
Environmental	
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)
Operating Humidity	10% ~ 90% non-condensing
Certifications	
EMC	CE, FCC, VCCI, C-Tick Class A
Safety	EN62368-1
Surge	EN61000-4-5

Dimensions



Optional Accessories

SFP Modules



- SFP-SX-X5**
Gigabit SFP Transceiver
- MMF
 - 0.5 km
 - 0°C ~70°C



- SFP-SX-02**
Gigabit SFP Transceiver
- MMF
 - 2 km
 - 0°C ~70°C



- SFP-LX-10**
Gigabit SFP Transceiver
- SMF
 - 10 km
 - 0°C ~70°C



- SFP-LX-40**
Gigabit SFP Transceiver
- SMF
 - 40 km
 - 0°C ~70°C