

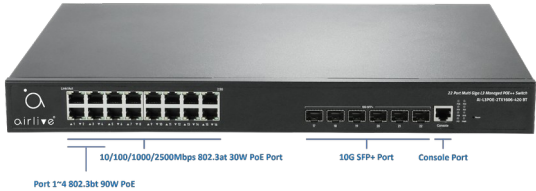
AI-L3POE-2TX1606-420 BT

L3 420W Managed Multi Giga POE+/++ Switch with 10G uplink

22-Port Multi Giga incl 16x 2.5G RJ-45 PoE+/++, 6x 10G SFP+

One box that powers your devices, connects them, and manages the lot.

The AI-L3POE-2TX1606-420 BT is an AirLive L3 420W Managed Multi Giga POE+/++ Switch with 10G uplink for small and medium business, branch, school and factory sites. It gives you 22-Port Multi Giga incl 16x 2.5G RJ-45 PoE+/++, 6x 10G SFP+, so access points, cameras, NVRs and servers each run at full speed instead of sharing one crowded pipe. Every copper port also carries power, so cameras, access points and IP phones need nothing but the network cable — 420W of PoE budget across the switch. Because it routes as well as switches, traffic between VLANs stays inside the box instead of going out to the router and back — quicker, and you can buy a smaller router. Set it up on site through the web interface, then run it — and every other AirLive device on that site — from AirLive AirCore, free.



22 ports

Copper + uplink, total

200 Gbps

Switching capacity

420 w

PoE power budget

Cloud

Managed by AirCore

What it does for you

One cable, power included

Cameras, access points, IP phones and door stations run on the same cable that carries their data — up to 420W across the switch. No ceiling power socket, no electrician on site.

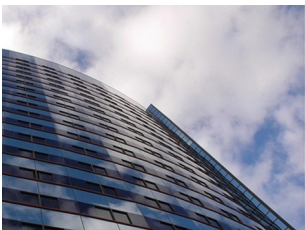
It routes, so the router doesn't have to

Traffic between departments, floors and VLANs is handled inside the switch. The router is left to do the one job it should be doing — reaching the internet. Fewer bottlenecks, and a cheaper router.

You can run it from your desk

Adopt it into AirLive AirCore and the whole site appears on one map — topology, port status, alerts and one-click fixes, from a browser or the Windows app. Free with the product, and no truck roll.

Where it earns its keep



Office & enterprise
floors and departments



School & campus
classrooms and halls



Factory & warehouse
lines, cameras, sensors

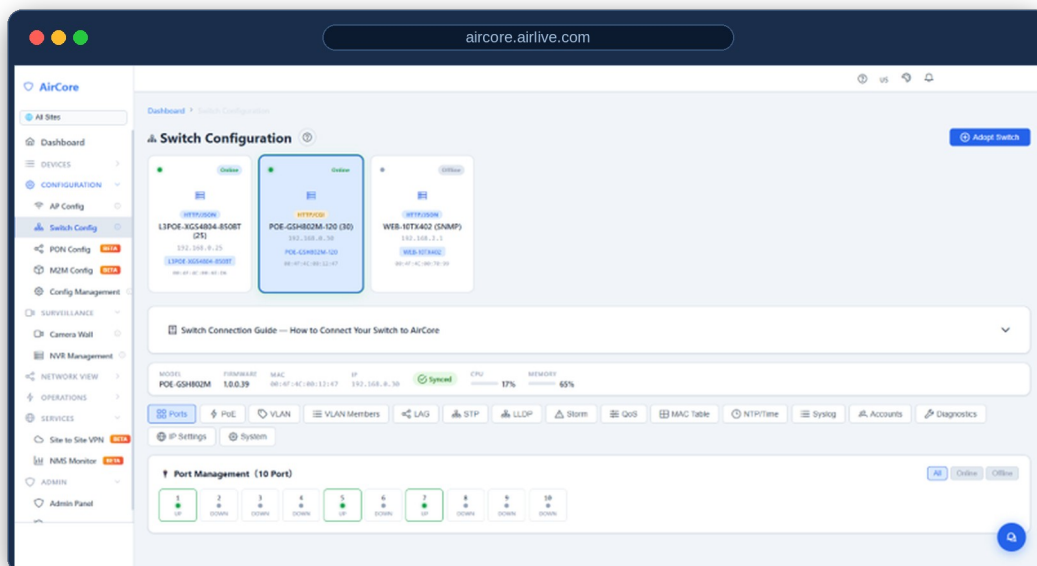


Server & data room
racks, NAS, hosts

One app. Every site. No truck rolls.

AirLive AirCore — cloud and Windows, free with the product.

Plug the switch in, adopt it once, and the whole site draws itself on a map — every AirLive switch, access point, PON unit and camera in one place. Ports, VLANs, PoE, LAG, STP and LLDP on the AI-L3POE-2TX1606-420 BT are all set from a browser or from a native Windows app in the system tray. AutoPilot watches the site around the clock, heals a broken path on its own and sends the alarm by e-mail or SMS.



AirCore cloud — switch configuration, live port status and one-click adoption.

AI-L3POE-2TX1606-420 BT + AirCore — the switch gets smarter

The switch and the platform are built for each other. On its own the switch already connects, segments and protects the site. Adopted into AirCore it also becomes visible and self-managing: AirCore discovers the topology, keeps a copy of the configuration, watches every port and uplink, and AutoPilot proposes — or applies — the fix when a link drops, a loop forms or a rogue DHCP server appears.

In short: the switch supplies the intelligence inside the site, AirCore supplies the intelligence about the site. Everything the local web UI and CLI can do, AirCore can do remotely, for one site or a hundred.

CLOUD

AirCore Cloud

- Zero-touch adoption — plug in, adopt, done
- Live topology and hierarchical site view
- Switch, VLAN, PoE, LAG, STP and LLDP configuration
- AI AutoPilot self-healing with one-click fixes
- Unified alert inbox — e-mail and SMS notification
- Config backup, restore and firmware roll-out
- Free for distributors and system integrators

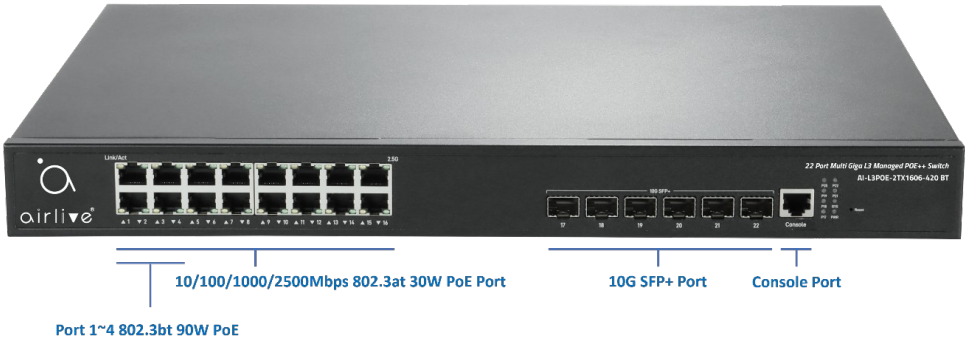
WINDOWS APP

AirCore Windows

- Native Windows 10 / 11 app — lives in the system tray
- Opens instantly, works without a browser tab
- Real-time dashboard and hierarchical topology
- Switch, VLAN, AP and PON config plus speed test
- Unified alert inbox with AutoPilot status
- Multi-camera live wall over WebRTC
- Free — same AirCore account, auto-updating

Specifications

Model: AI-L3POE-2TX1606-420 BT



Hardware

Device Interface: 16 x 10/100/1000/2500M PoE 30W RJ-45 Ports (Port 1~4 PoE 90W)
6 x 10G SFP+ Ports
1 x RJ-45 Console Port

Standard

IEEE 802.3: Ethernet MAC Protocol
IEEE 802.3u: 100BASE-TX Fast Ethernet
IEEE 802.3ab: 1000BASE-T Gigabit Ethernet
IEEE 802.3bz: 2.5GBASE-T
IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber)
IEEE 802.3ad: Standard method for performing link aggregation
IEEE 802.3x: Flow control
IEEE 802.3az: Energy Efficient Ethernet
IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol)
IEEE 802.1p: VLAN Tag LAN Layer QoS/CoS Protocol Traffic Prioritization (Multicast filtering function)
IEEE 802.1q: VLAN Bridge Operation
IEEE 802.1ad: QinQ
IEEE 802.1x: Client/Server Access Control and Authentication Protocol
IEEE 802.1d: STP
IEEE 802.1s: MSTP
IEEE 802.1w: RSTP
IEEE 802.3af (15.4W)
IEEE 802.3at (30W)
IEEE 802.3bt (90W)
LED Indicators: 16 x 10/100/1000M/2.5G link/act indicators, 16 x 2.5G Speed indicators, power indicators, system indicators, 6 x 10G Fiber indicators
Lighting Surge Protection:
Lightning protection: 6KV, Air discharge: 8KV, Surge: Common mode 6KV, Differential mode 2KV, Power supply: Common mode 6KV, Differential mode 2KV
Mechanical
Solid metal rack-mountable housing

Power

Power Input: AC100~240VAC
Total Switch Power: 450W
Power Consumption Switch: Maximum 30W

Power and PoE

Power Input: AC100~240VAC
Protocol: IEEE8023bt (90W), IEEE802.3at (30W), IEEE802.3af (15.4W)
PoE Port: 16
PoE Power Output / PoE Port 1~4: max. 90W
PoE Power Output / PoE Port 5~16: max. 30W
PoE Power Output / PoE Switch: max. 420W
PoE Software Function: Support PoE time management, Support PoE automatic monitoring and Watchdog, Support PoE Port power supply and AI smart PoE.

Switching Performance

Bandwidth: 200Gbps
Packet Forwarding Rate: 142.85Mpps
Package Buffer: 12Mbit
MAC Address: 32K
Jumbo Frame: Up to 12K
VLANs: VLAN range 1-4094, maximum active VLAN is 4K
MTBF: 100000 hour

Software Function L3

IPv4: Support IPv4 Static Routes
IPv6: Support IPv6 Static Routes
Address Resolution Protocol (ARP): Static ARP
RIP: Support V1/V2
OSPF: Support V1/V2

AI-L3POE-2TX1606-420 BT Specifications (2 / 2)

Software Function L2

Port Function: Port Switch Configuration, Port Description Configuration, Port Speed Configuration, Port Duplex Configuration, Port Flow Control Configuration, Error Disabled Recovery, Fiber Module (DDM)

Link Aggregation: Support IEEE 802.3ad LACP, Static Trunk, Max 8 Group, Max 8 Ports/Group, Traffic Load Balancing

Storm Control: Support Broadcast Suppression, Unknown Multicast, Unknown Unicast

Port Mirroring: Support Port mirroring, RSPAN (remote port mirroring), Mirroring 4 sessions port-based (Many to One)

Port Isolation: Supported

Port Rate-limit: Supported

VLAN: Support Surveillance VLAN (16 OUI Mode (Auto/ Manual)), Voice VLAN (16 OUI Mode (Auto/Manual))

QinQ (IEEE 802.1ad) Basic, GARP VLAN Registration Protocol (GVRP), 4096 Static VLAN, 8 groups Protocol-based, 256 MAC-based, IEEE 802.1Q Tagged-based, Hybrid VLAN, protocol-based VLAN, MAC address-based

MAC Address: Supports Dynamic Address, Static MAC address, Filtering MAC Address, MAC address Black Hole, MAC address learning limit,

Spanning Tree: Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocol

Support BPDU Filter, BPDU Guard, Auto Edge Port,

ERPS (Ethernet Ring Protection): Supported

LLDP: Support LLDP, LLDP MED

Multicast: Support Common - 256 Multicast Groups, - Immediate Leave, - Static/Forbidden Router Port, - Static/Forbidden Forward Port, - 128 profiles Filtering, - Throttling, IGMP Snooping, IGMP v1/v2, IGMP v3 Basic (BISS), IGMP v2/v3 Querier, MLD Snooping, MLD v1/v2, Multicast VLAN Registration (MVR) - IPv4

QoS: Support Trusted QoS, Queue Scheduling (WRR, WFQ, Strict Priority, Hybrid(WRR+SP or WFQ+SP)), Class of Service, Port-based, 802.1p, IP TOS Precedence, IP DSCP, Rate Limit Port-based (Ingress/Egress)

ACL: Support ACL Type L2/L3/L4 , 512 MAC, based, 512 IPv4-based, 512 IPv6-based, Access Rules 1024

IPv6

IPv6 Host: Support Auto Configuration, Static IPv6 Address and Prefix Length, Static IPv6 Default Gateway, IPv6 Neighbor Discovery (ND), IPv6 Duplicate Address Detection, ICMPv6

IPv6 Application: Support HTTP/HTTPS, TELNET, SSH, SNMP, TFTP, Syslog, PING, DHCPv6

DHCP

DHCP: Support DHCP server, DHCP relay, BootP/DHCP client, DHCP snooping, DHCP relay option82, DHCP snooping option82, Requirements for Remote-ID (Access Switch Identifier), Requirements for Circuit-ID (Access port identifier), IP Pool, Static Binding

Security

AAA Authentication: Support 8 TACACS+, 8 RADIUS

Authentication Manager: Support IEEE 802.1X, MAC Auth, Web Auth, Guest VLAN, Port-based, Host-based

Account Manager: Support Local Authentication, 8 Multiple User Account, Multi-Level Security (Manager/Operator), Password Recovery Procedures

Management Access: Support Management VLAN, 256Management ACL

SSL: Support SSLv2, SSLv3, TLSv1

Port Security: Support 256 Dynamic Lock

CPU Defense Engine, DoS Prevention, DHCP Snooping (with Option 82), Dynamic ARP Inspection, 256 IP Source Guard, IP/MAC/Port Binding (IMPB), Dynamic VLAN Assignment

Diagnostics

Syslog (RFC3164): Support Local RAM, Local Flash, 8 Remote Server

System Diagnostics: Support CPU Utilization, Memory Utilization, Port Utilization, Technical Support Log

Port Diagnostics: Support Cable Test, Fiber Module Status

Network Diagnostics: Ping Test, Traceroute

UDLD: Supported

Management

Manager Access: Support CLI 3 sessions Console, 3 sessions Telnet (RFC854), WebUI HTTPS, SSH v1/v2

Manager IP: Support DHCP Client, DNS Client

Time Management: Support SNTP, Local

SNMP: Support V1/V2C/V3,

SNMP MIB: Support RFC1213 MIB-II, RFC1493 Bridge MIB, RFC2674 Bridge MIB Extensions, RFC1215 Generic Traps MIB, RFC2819 RMON MIB (Groups 1, 2, 3 and 9), RFC2737 Entity MIB, RFC3635 Ethernet-Like MIB, RFC2863 Interface MIB, SNMP-Community-MIB, SNMPv3-MIB

RMON: Support 32 entries / type RMON Management

Firmware Management: Support Firmware Upgrade/Backup, Dual Images, Configuration Download/Backup, Multiple Configurations

Configuration Management: Support Upload and Download (TFTP (RFC783), HTTP, UART, Save, Restart, Factory Defaults

Environment

Operating Temperature: 0°C to +45°C

Storage Temperature: -40°C to +70°C

Working Humidity: 10%~90%, non-condensing

Ordering information

Model

AI-L3POE-2TX1606-420 BT

Product name

L3 Managed Multi Giga PoE++ 802.3bt Switch, 420W 16-Port 2.5G including 6x 10G SFP+ Fiber ports.

Package content

PoE Switch x 1, QIG x 1, Power cord x 1, Rack ear x 1

Package size

51.0 x 37.5 x 9.3 cm(L*W*H)

Package weight

N.W: 3.55kg; G.W: 4.21kg

Carton quantity

3 pcs / 1 carton

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