Industrial Switches | Product Information

IS130 Series

Industrial Unmanaged Layer 2 Switches

Allied Telesis ruggedized IS130 industrial unmanaged switches provide enduring performance in harsh environments, such as those found in outdoor IoT and industrial applications.

Overview

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The Allied Telesis IS130 multipurpose unmanaged Layer 2 switches are ideal for Smart Cities applications, harsh industrial environments, and any situation where tough and reliable devices are required.

With a wide operating temperature range of between -40° and 75°C, the IS130 switches tolerate demanding environments, such as those found in industrial and outdoor deployments.

Performance

These high-performing, cost-effective switches meet the stringent performance requirements of today's industrial networks. Featuring support for up to 2K MAC addresses, the IS130 Series is ideal for edge networking.

Gigabit and Fast Ethernet

The IS130 Series SFP port supports both Gigabit and Fast Ethernet Small Form-Factor Pluggables (SFPs). This makes the IS130 Series ideal for environments where Gigabit fiber will be phased-in over time, and allows for uninterrupted connectivity to the legacy 100FX hardware while it is upgraded to Gigabit Ethernet.

Support for both SFP speeds allows organizations to stay within budget as they migrate to faster technologies.

Power over Ethernet

The IS130-6GP is a Power over Ethernet Power Sourcing Equipment (PoE PSE) device, which is compliant with IEEE802.3af and IEEE802.3at standards.

Each port supplies either 15.40W PoE with 12.95W available to the powered device, or 30.00W PoE+ with 25.50W available to the powered device.

PoE sourcing is the ideal solution to support many devices, including¹:

- Pan, Tilt and Zoom (PTZ) cameras with heating/cooling fans for outdoor applications
- Enhanced infrared lighting
- Lighting controllers
- LED lighting fixtures
- Remote Point of Sale (POS) kiosks

¹ Power supply must be compliant with local/national safety and electrical code requirements. Select the supply with the most appropriate output power derating curve.



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Key Features

- ► Full Gigabit, wirespeed ports
- 100/1000Mbps SFP support
- ▶ IEEE 802.3at PoE+ sourcing (30W)
- ▶ 90W PoE power budget
- ► Wide -40 to +75°C operating temperature range
- Dual power inputs with reverse polarity and over-current protection
- Alarm output
- DIN rail and wall mount
- ▶ IP-30 (metal case)

Specifications

PRODUCT	10/100/1000T (RJ-45)	100/1000X	POE+ ENABLED	SWITCHING	FORWARDING	
	COPPER PORTS	SFP PORTS	PORTS	Fabric	RATE	
IS130-6GP	5	1	4	12Gbps	8.93Mpps	

ELECTRICAL/MECHANICAL APPROVALS					
Compliance Mark	CE, FCC, RCM, TUV, VC	CI			
Safety	AS/NZS 62368.1 CAN/CSA C22.2 No.62 EN/IEC/UL62368-1	368-1			
EMC	AS/NZS CISPR 32, class A CAN/CSA-CISPR 22 CISPR 22; CISPR 32 EN55024; EN55032, class A EN61000-6-2, IEC61000-6-4, class A FCC part 15B, class A ICES-003, issue 6, class A VCCI, class A				
Electrostatic Discharge (ESD)	EN61000-4-2, level 3				
Radiated Susceptibility (RS)	EN61000-4-3, level 3				
Electrical Fast Transient (EFT)	EN61000-4-4, level 3				
Lighting/Surge immunity (Surge)	EN61000-4-5, level 2				
Conducted immunity (CS)	EN61000-4-6, level 3				
Magnetic field immunity	EN61000-4-8, level 4				
Freefall	IEC60068-2-31	Class T2.3 (1m drop)			
Shock	IEC60068-2-27 MIL-STD-810G, 2008	operational: 15g 11ms, half sine operational: 15g 11ms, half sine			
Vibration	IEC60068-2-6 MIL-STD-810G, 2008	operational: 1g@10-150Hz operational: Procedure 1, Category 4, per Figure 514.6C-1			

Performance

- Up to 2K MAC addresses
- Packet buffer memory: 128KB
- Supports 9,216 bytes jumbo frames

Other Interfaces

►	Туре	Alarm output (1A @ 24Vdc)
	Port no.	1
	Connector	2-pin Terminal Block ²

Туре	Power Input				
Port no.	2				
Connector	2-pin Terminal Block ²				

Environmental Specifications

- Operating temperature range: -40°C to 75°C (-40°F to 167°F)
- Storage temperature range: -40°C to 85°C (-40°F to 185°F)
- Operating relative humidity range: 10% to 95%RH non-condensing
- Storage relative humidity range: 10% to 95%RH non-condensing
- Operating altitude 2,000m maximum (6,561ft)

Mechanical

 EN 50022, EN 60715 Standardized mounting on rails

Environmental Compliance

- RoHS
 - ► China RoHS
 - ► WEEE

² A single 6-pin screw Terminal Block include both power input and alarm output

Physical Specifications

PRODUCT	WIDTH X DEPTH X HEIGHT	WEIGHT	PACKAGED	ENCLOSURE	MOUNTING	PROTECTION RATE	
			WIDTH X DEPTH X HEIGHT	WEIGHT	ENGLUSURE	MOONTING	PROTECTION RATE
IS130-6GP	30 x 95 x 140 mm (1.18 x 3.74 x 5.51 in)	500 g (1.10 lb)	216 x 165 x 68 mm (8.50 x 6.50 x 2.68 in)	700 g (1.54 lb)	Metal shell	DIN rail, wall mount	IP30

Power Characteristics

PRODUCT	INPUT Voltage Co	COOLING	NO POE LOAD		FULL POE LOAD***			POE POWER	MAX POE SOURCING PORTS		
			MAX POWER Consumption	MAX HEAT DISSIPATION	NOISE	MAX POWER Consumption	MAX HEAT DISSIPATION	NOISE	BUDGET	P0E (15W)	P0E+ (30W)
IS130-6GP	48Vdc*	Fanless	14.0W @48Vdc	47.9 BTU/h	-	74.0W @48Vdc	253 BTU/h***	-	60W @75°C	4	2
	54Vdc**	Fanless	19.6W @54Vdc	66.9 BTU/h	-	109.6W @54Vdc	374 BTU/h***	-	90W @75°C	4	3

*sourcing IEEE 802.3af Type 1 (PoE)

** sourcing IEEE 802.3at Type 2 (PoE+)

 *** include PD's consumption and margin

Standards and Protocols

Ethernet

IEEE 802.2	Logical Link Control (LLC)	IEEE 802.3at	Power over Ethernet plus (PoE+)
IEEE 802.3	Ethernet	IEEE 802.3u	100BASE-X
IEEE 802.3ab	1000BASE-T	IEEE 802.3x	Flow control (FDX)
IEEE 802.3af	Power over Ethernet (PoE)	IEEE 802.3z	1000BASE-X

IS130 Series | Industrial Unmanaged Layer 2 Switches

Ordering Information

Switches

The DIN rail and wall mount kits are included.

AT-IS130-6GP-80 Industrial un-managed Layer 2 Switch, PoE+ support

Supported SFP Modules

Refer to the installation guide for the recommended Max. Operating Temperature according to the selected SFP module.

100Mbps SFP Modules

AT-SPFX/2 100FX multi-mode 1310 nm fiber up to 2 km

AT-SPFX/15

100FX single-mode 1310 nm fiber up to 15 km

AT-SPFXBD-LC-13

100BX Bi-Di (1310 nm Tx, 1550 nm Rx) fiber up to 10 km

Dimensions

(mm)



100BX Bi-Di (1550 nm Tx, 1310nm Rx) fiber up to 10 km $\,$

1000Mbps SFP Modules

AT-SPSX 1000SX GbE multi-mode 850 nm fiber up to 550 m

AT-SPSX/I 1000SX GbE multi-mode 850 nm fiber up to 550 m industrial temperature

AT-SPEX 1000X GbE multi-mode 1310 nm fiber up to 2 km

AT-SPLX10 1000LX GbE single-mode 1310 nm fiber up to 10 km

AT-SPLXIO/I 1000LX GbE single-mode 1310 nm fiber up to 10 km industrial temperature

AT-SPLX40

1000LX GbE single-mode 1310 nm fiber up to 40 km

AT-SPBDI0-13

1000BX GbE Bi-Di (1310 nm Tx, 1490 nm Rx) fiber up to 10 km

AT-SPBDI0-14

1000BX GbE Bi-Di (1490 nm Tx, 1310 nm Rx) fiber up to 10 km

AT-SPBD20-13/I

1000BX GbE Bi-Di (1310 nm Tx, 1490 nm Rx) fiber up to 20 km, industrial temperature

AT-SPBD20-14/I

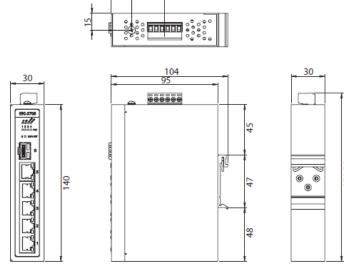
1000BX GbE Bi-Di (1490 nm Tx, 1310 nm Rx) fiber up to 20 km, industrial temperature

AT-SPBD40-13/I

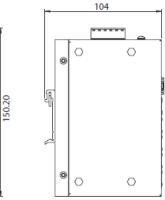
1000BX GbE Bi-Di (1310 nm Tx, 1490 nm Rx) fiber up to 40 km, industrial temperature

AT-SPBD40-14/I

1000BX GbE Bi-Di (1490 nm Tx, 1310 nm Rx) fiber up to 40 km, industrial temperature



47.70



Panel Cut-out Dimensions: 30 x 140 x 95 mm (1.18 x 5.51 x 3.74 in)

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NETWORK SMARTER

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