

IDS1616F2-16P

Din-rail 16 Ports Gigabit Industrial PoE Switch with 2 Gigabit SFP uplink ports



Product Description

The IDS1616F2-16P is a robust, high-performance Industrial Power over Ethernet (PoE+) Switch engineered to deliver unwavering reliability and advanced connectivity for the most demanding environments, with a proven design for industrial rolling stock and transportation applications.

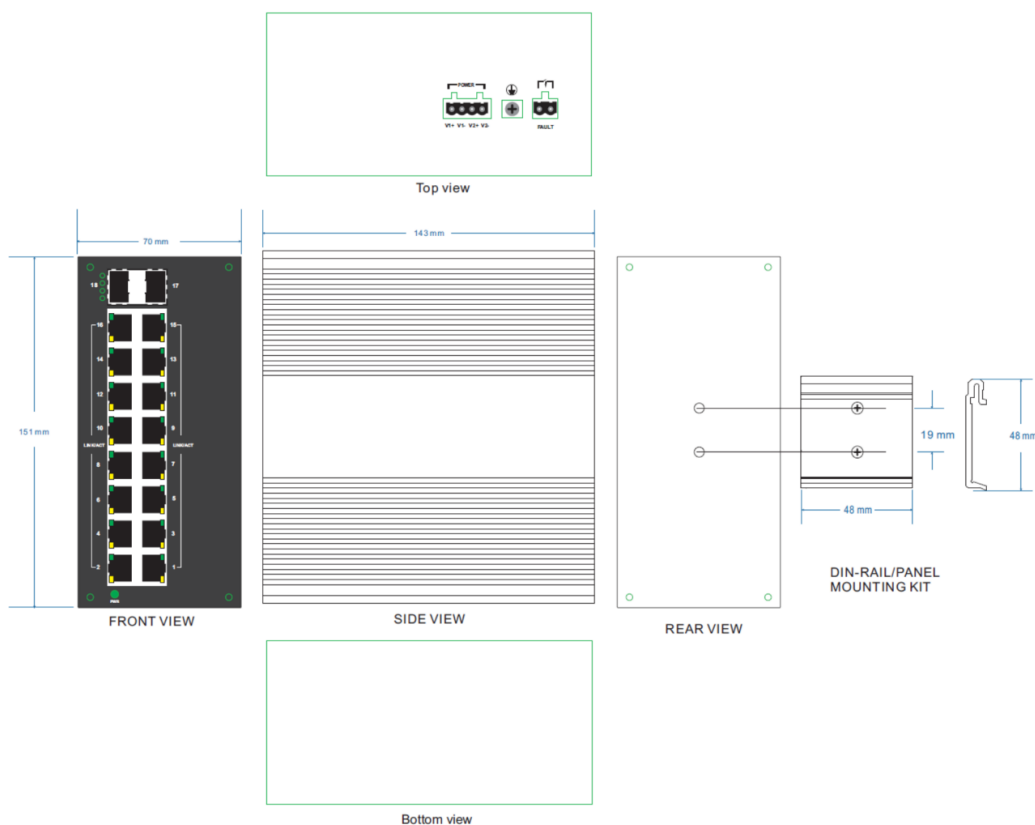
Built to excel in harsh conditions, this switch combines high-density PoE power with gigabit fiber uplink capabilities. It features 16 x 10/100/1000BASE-TX RJ45 ports with IEEE 802.3af/at PoE+ support, providing scalable power and data for a wide array of edge devices such as high-resolution IP cameras, wireless systems, and industrial sensors. For high-speed network aggregation and future-proof backbone links, it is equipped with 2 x 1000M SFP (Gigabit) fiber optic slots, enabling long-distance, noise-immune connectivity and flexible network topology design.

The switch delivers full non-blocking Layer 2 wire-speed switching performance, ensuring deterministic, low-latency data transmission crucial for real-time control and aggregation networks. Its rugged, fanless design guarantees reliable 24/7 operation across an extended temperature range of -40° C to 75° C, making it ideal for deployment in rolling stock, roadside cabinets, factory floors, and other extreme environments.

Product Features

- Conforms to IEEE802.3, IEEE 802.3u, IEEE 802.3ab, IEEE802.3z, IEEE802.3af, IEEE802.3at
- Provide 16 10/100/1000M RJ45 Copper ports with 2x1000M SFP ports
- Provide 16 PoE ports
- PoE Budget 480W
- High back-plane bandwidth 36Gbps
- IEEE802.3x Flow control
- Surge protection for power port and data ports
- Wide power input: 44~57VDC
- Wide working temperature: -40~75°C
- IP30 Aluminum case
- 200,000 hours MTBF (Parts count reliability prediction)
- EMI: FCC Part 15, CISPR (EN55022) Class A
- EMS: EN61000-4-2 (ESD), EN61000-4-3 (RS)
- EN61000-4-4 (EFT), EN61000-4-5 (Surge)
- EN61000-4-6 (CS), EN61000-4-6 (Common Mode Conduction)
- Industrial: IEC6100-6-2
- Railway: EN50155, EN50121-4
- Transportation: NEMA TS-2
- Warranty: 5 years

Product Dimension:



Product Specifications:

Attributes	
Networking Interfaces	16 10/100/1000M RJ45 Copper ports 2 1000M SFP ports
LED Indicators	Power, Link/Act, PoE
Copper Cable	
10Base-T	2-pair UTP/STP Cat. 3,4,5/5E,6 cable EIA/TIA-568 100-ohm (100m)
100Base-T	2-pair UTP/STP Cat. 5/5E,6 cable EIA/TIA-568 100-ohm (100m)
1000Base-T	4-pair UTP/STP Cat. 5/5E,6 cable EIA/TIA-568 100-ohm (100m)
Performance	
Switching Capacity	36 Gbps
Forwarding Capacity	26.78 Mpps
Forwarding Mode	Store and Forward
Packet Buffer Memory	4 Mbit
MAC Address Table	8K
PoE Budget	480W Max
Physical	
Dimensions	150x143x70mm
Weight	2kg
Operating Temperature	-40~75°C
Storage Temperature	-45~85°C
Operating Humidity	5 to 95% Noncondensing
Power Method	44-57VDC
Max. Power Consumption	Including PoE Output: 500W Excluding PoE Output: 20W
EMC Safety	FCC, CE, RoHS
Reliability	200,000 hours MTBF
Power over Ethernet	
PoE Interfaces	Ports 1-16
PoE Standard	IEEE802.3af, IEEE802.3at
Max. PoE Wattage per Port	30W
PoE Voltage	52VDC (Depend on Power Adapter)
PoE Pin Assignment	V- (RJ45 Pin1,2), V+ (RJ45 Pin 3,6)
Package List	
Industrial PoE Switch	1pcs
User Manual	1pcs
Warranty Card	1pcs

Order Information:

Switch Models	
IDS1616F2-16P	Din-rail 16 Ports Gigabit Industrial PoE Switch with 2 1000M SFP uplink ports
SFP Modules	
GSFP-RJ45	1000M SFP module, RJ45 port
GSFP-M-LC-R5	1000M SFP module, multi-mode, 500M, 850nm, LC
GSFP-S-LC-20	1000M SFP module, single-mode, 20km, 1310nm , LC
GSFP-S-LC-40	1000M SFP module, single-mode, 40km, 1310nm, LC
GSFP-S-LC-80	1000M SFP module, single-mode, 80km, 1550nm, LC