

# IES-C1160-L



ORing WEB-site



***Industrial 16-port unmanaged switch with 16x10/100Base-T(X)***

## Features

- 10/100BaseT(X) auto-negotiation speed, full/half-duplex mode, auto MDI/MDI-X connection
- Store and forward switching process type
- IEEE 802.3x flow control
- IEEE 802.1p for Quality of Service (QoS) traffic prioritized function
- Broadcast storm protection to prevent network devices from crashing
- DIN-Rail enabled
- IP-40 protection class



## Introduction

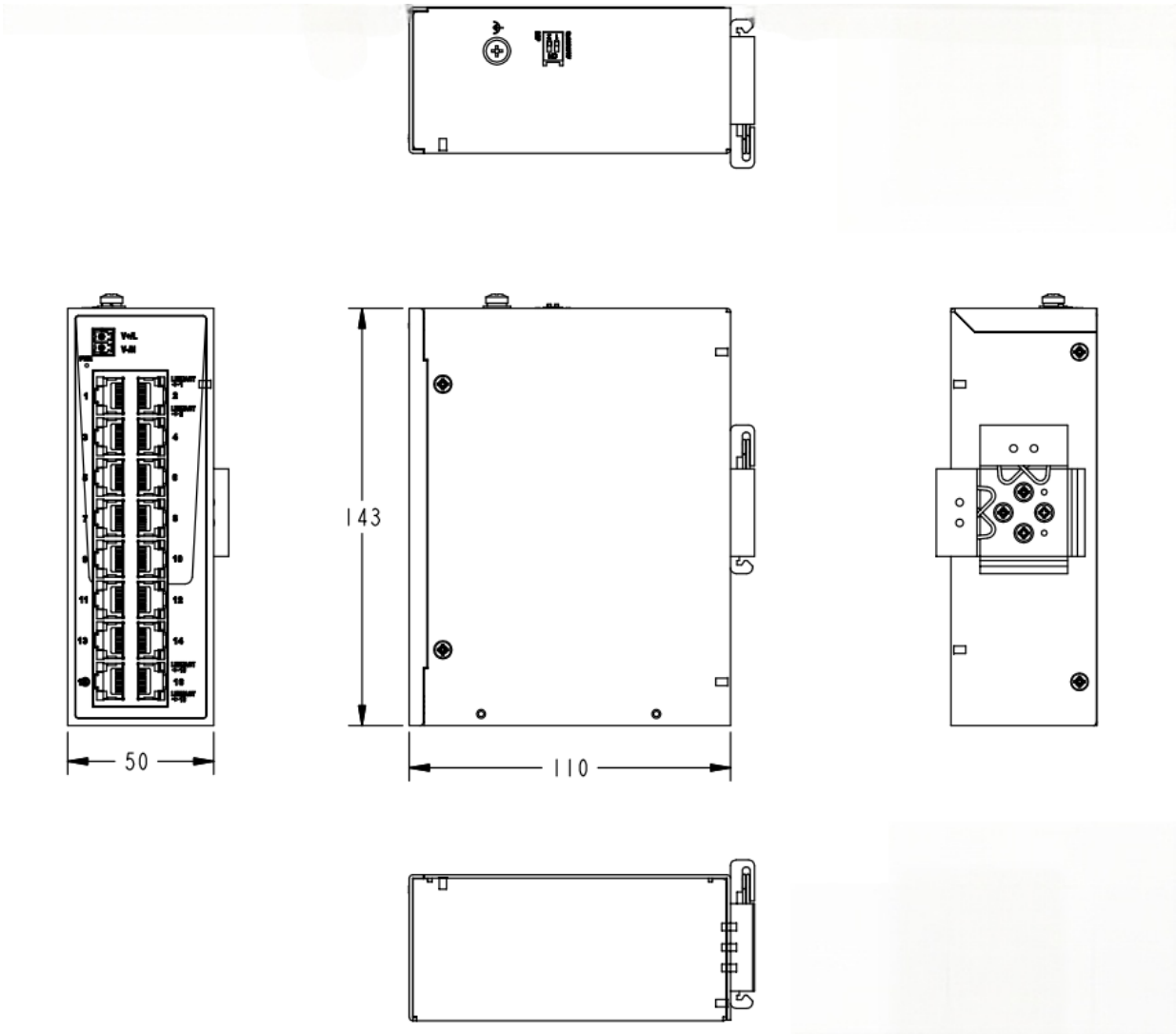
IES-C1160-L is unmanaged Ethernet switches with 16x 10/100Base-T(X) ports RJ45 ports. The IES-C1160-L also allows users to enable or disable broadcast storm protection, Multicast filter and Quality of Service (QoS) function via the DIP switches on the top panel.

The IES-C1160-L is also compliant with PROFINET Conformation Class A (CC-A) and support DSCP QoS, making these switches suitable for PROFINET and Ethernet/IP networks.

In addition, the wide operating temperature ranges from -40°C to 75°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for Ethernet application.

Dimensions

Unit=mm



Specifications

| ORing Switch Model                        | IES-C1160-L                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Physical Ports                            |                                                                                                                                   |
| 10/100Base-T(X) Ports Auto MDI/MDIX, RJ45 | 16                                                                                                                                |
| Technology                                |                                                                                                                                   |
| Ethernet Standards                        | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3x for Flow control<br>IEEE 802.1p for Quality of Service (QoS) |
| MAC Table                                 | 8K MAC address                                                                                                                    |
| Packet Buffer Size:                       | 4Mbit                                                                                                                             |
| Processing                                | Store-and-Forward                                                                                                                 |
| Switch Properties                         | Switching latency: <10 μs<br>Switching bandwidth: 3.2 Gbps                                                                        |

| LED Indicators                 |                                                                                                                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Indicator (PWR)          | Green: Power LED x 1                                                                                                                                                               |
| 10/100Base-T(X) Port Indicator | Amber for Link/Act indicator: On for link-up, Off for link-down, Blinking for act.                                                                                                 |
| Power                          |                                                                                                                                                                                    |
| Input Power                    | 9.0~60VDC/24VAC (18~30 VAC) on 2-pin terminal block.                                                                                                                               |
| Power Consumption (Typ.)       | 4 Watts                                                                                                                                                                            |
| Overload Current Protection    | Present                                                                                                                                                                            |
| Reverse Polarity Protection    | Present                                                                                                                                                                            |
| Physical Characteristic        |                                                                                                                                                                                    |
| Enclosure                      | IP-40                                                                                                                                                                              |
| Dimension (W x D x H)          | 50(W) x 110(D) x 143(H)mm<br>1.97 (W) x 4.33(D) x 5.63 (H) inch                                                                                                                    |
| Weight (g)                     | 360g                                                                                                                                                                               |
| Environmental                  |                                                                                                                                                                                    |
| Storage Temperature            | -40 to 85°C (-40 to 185°F)                                                                                                                                                         |
| Operating Temperature          | -40 to 75°C (-40 to 167°F)                                                                                                                                                         |
| Operating Humidity             | 5% to 95% non-condensing                                                                                                                                                           |
| Regulatory Approvals           |                                                                                                                                                                                    |
| EMC                            | CE EMC (EN 55035, EN 55032), FCC Part 15 B                                                                                                                                         |
| EMI                            | EN 55032, EN 61000-6-4, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A                                                                                                 |
| EMS                            | EN 55035 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11 (DIP)) |
| Safety                         | IEC/EN 62368-1, UL61010-1& UL 61010-2-201                                                                                                                                          |
| MTBF                           | 1,197,919 hrs                                                                                                                                                                      |
| Warranty                       | 5 years                                                                                                                                                                            |

Ordering Information

| Available Model                                                                                                          | Model Name  | Description                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|
|                                                                                                                          | IES-C1160-L | Industrial 16-port unmanaged switch with 16x10/100Base-T(X)                                                      |
| <b>Packing List</b> <ul style="list-style-type: none"><li>IES-C1160-L x 1</li><li>Quick Installation Guide x 1</li></ul> |             | <b>Optional Accessories</b> <ul style="list-style-type: none"><li>SDR/NDR Series DIN-Rail power supply</li></ul> |