IES-1160

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

Features

➢ RJ-45 port support Auto MDI/MDI-X switching function
➢ Provides Store-and-Forward switching architecture
➢ Provides 3.2Gbps Back-plane (Switching Fabric)
➢ Warning system by relay output
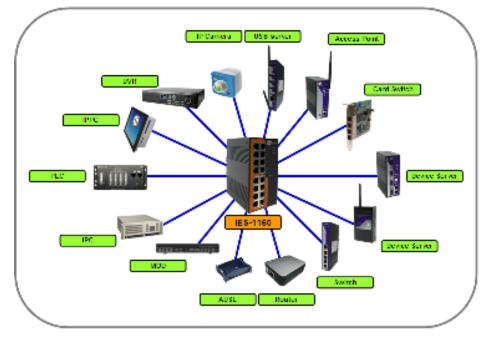➢ Rigid IP-30 housing design
➢ DIN-Rail and panel mounting enabled

Introduction

IES-1160 is unmanaged Ethernet switch with 16x10/100Base-T(X) port. IES-1160 support redundant power inputs, relay output alarm, and surge protection. The wide operating temperature range from -40ºC to 70ºC can satisfy most of operating environments.
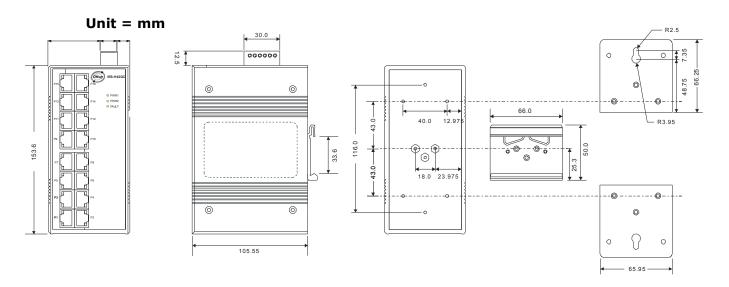
Practical Operation

IES-1160 is usually deployed for connecting several Ethernet devices, such like Ethernet I/O, IP-Camera, etc. The designs of rugged housing and wide operating temperature, range form -40 ~ 70 ºC, makes IES-1160 reliably in any kinds of industrial applications. Especially, IES-1160 features three different redundant DC power inputs, two DC power inputs are on terminal block and other is on DC power jack, to avoid any unexpected fails on power on. Thus, IES-1160 could guarantee a non-stop operation.

Connections of Ethernet devices

Dimension

Unit = mm

Specifications

ORing Switch Model	IES-1160
Physical Ports	
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	**16**
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-T(X) IEEE 802.3x for Flow control

MAC Table	8192 MAC addresses
Priority Queues	4
Processing	Store-and-Forward
Switch Properties	Switching latency: 9 us Switching bandwidth: 3.2Gbps
LED indicators	
Power indicator	Green : Power LED x 3
Fault indicator	Amber : Indicate power failed warning
10/100Base-T(X) RJ45 port indicator	Green for port Link/Act. Amber for Duplex/Collision
Power	
Redundant Input power	Dual DC inputs. 12 - 48VDC on 6-pin terminal block
Power consumption (Typ.)	9 Watts
Overload current protection	Present
Reverse polarity protection	Present on terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	72(W)x105(D)x152(H) mm (2.83x4.17x5.98 inch)
Weight (g)	1010 g
Environmental	
Storage Temperature	-40 to 85ºC (-40 to 185ºF)
Operating Temperature	-40 to 70ºC (-40 to 158ºF)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
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), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950
Warranty	5 years

Ordering Information

IES-1AAB

Code Definition	10/100Base-T(X) Port Number	Additional Port Number
Option	**- 16:** 16 ports	**- 0:** 0 ports

Available Model	Model Name	Description
	IES-1160	Industrial 16-port unmanaged Ethernet switch with 16x10/100Base-T(X)

Packing List

- IES-1160 x 1
- Din-Rail Kit x 1
- Wall-Mount Kit x 1
- Quick Installation Guide x 1

Optional Accessories

- DR-45 series : 45 Watts power supply
- DR-120 series : 120 Watts power supply
- DR-75 series : 75 Watts power supply