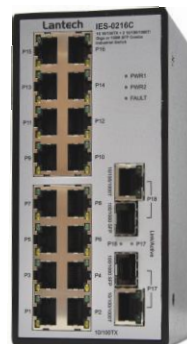


IES-0216C

16 10/100TX + 2 10/100/1000T/Giga or 100M

SFP Combo Industrial Switch

- Provides EFT & ESD protection technology
- Wide-range redundant power design
- Power polarity auto-reverse and protection
- IP-30 metal housing with DIN Rail and wall mount design



OVERVIEW

The Lantech IES-0216C is a 16-Port 10/100TX + 2-Port 10/100/100T/ Giga SFP Industrial Switch for plug-and-play installation.

The IES-0216C supports 3000 VDC EFT surge protection and 6000VDC ESD protection for industrial area where has unstable power and electrostatic discharge. With wide power input range from 9V to 56V/-9V to -56V, the IES-0216C also features power polarity auto-reverse and protection.

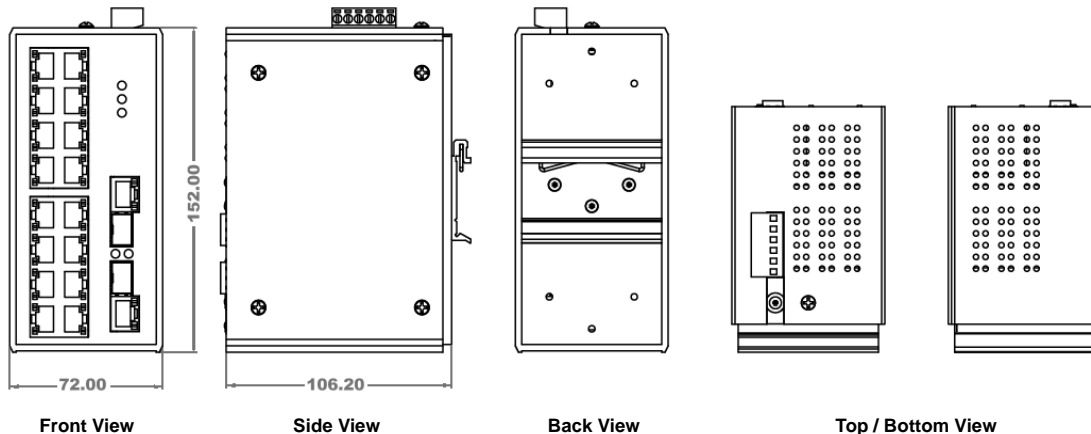
The Lantech IES-0216C is designed to meet the demands of industrial environments, comes packaged in a robust IP 30 housing and has been tested extensively to meet Industrial EMI and EMC standards. With relay contact to alarm system function, the IES-0216C can immediately notify of power failure event.

The Lantech IES-0216C is the best to be used in automation, transportation, semi-conductor factory, heavy Industrial factory and other factory assembly lines.

FEATURES & BENEFITS

- | | |
|--|--|
| <ul style="list-style-type: none"> ■ System Interface/Performance <ul style="list-style-type: none"> · RJ-45 port support Auto MDI/MDI-X Function · Store-and-Forward Switching Architecture · Back-plane (Switching Fabric): 7.2Gbps · 8K MAC address table ■ Supports IEEE802.3x Flow control with full duplex / Backpressure with half duplex ■ Provides EFT protection 3000 VDC for power line ■ Supports 6000 VDC Ethernet ESD protection | <ul style="list-style-type: none"> ■ Case/Installation <ul style="list-style-type: none"> · IP-30 Metal Housing Protection · DIN Rail and Wall Mount Design ■ Power Supply <ul style="list-style-type: none"> · Wide-range Redundant Power Design · Power Polarity Reverse Protect · Overload Current Re-settable Fuse Present ■ Provides broadcast storm protection ■ Wide Operating Temperature for -E model (-40°C~75°C) |
|--|--|

DIMENSIONS (unit=mm)



SPECIFICATION

IEEE Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3z Gigabit fiber IEEE 802.3x Flow Control and Back-pressure	<table border="1"> <tr> <td rowspan="2">Un-load</td> <td>A</td> <td>0.27A</td> </tr> <tr> <td>W</td> <td>3.24</td> </tr> <tr> <td rowspan="2">Full Load</td> <td>A</td> <td>0.72A</td> </tr> <tr> <td>W</td> <td>8.64</td> </tr> </table>	Un-load	A	0.27A	W	3.24	Full Load	A	0.72A	W	8.64
Un-load	A			0.27A								
	W	3.24										
Full Load	A	0.72A										
	W	8.64										
Switch Architecture	Back-plane (Switching Fabric): 7.2Gbps	Protocol	CSMA/CD									
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Fiber Ethernet port	LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Red) 16 10/100TX : Link/Activity (Green), Full duplex/Collision (Yellow) Giga Copper : Link/Activity (Green), speed (1000M Green) SFP : Link/Activity (Green)									
Mac Address	8K MAC address table	Operating Humidity	5% ~ 95% (Non-condensing)									
Packet Buffer	1Mbits	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F (-E model)									
Connectors	16 10/100TX RJ-45 with auto MDI/MDI-X 2 10/100/1000T RJ-45 with auto MDI/MDI-X 2 100M/1000M SFP slot for 100M or Giga SFP transceiver	Storage Temperature	-40°C~85°C / -40°F~185°F									
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-T: 2-pair UTP/STP Cat. 5e or 6 cable EIA/TIA-568 100-ohm (100m)	Case Dimension	Metal case, IP-30, 72mm (W) x 105mm (D) x 152mm (H)									
Optical Cable	Multi-mode: 50/125um~62.5/125um Single-mode: 9/125um Available distance: 2km (Multi-mode)/30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)	Weight	1300 g									
Power Supply	24VDC (9~56VDC) / -24VDC (-9~-56VDC); 12~36VAC*, Redundant power with polarity reverse protect function and removable terminal block	Installation	DIN Rail and Wall Mount Design									
Reserve polarity protection	Present	EMI & EMS	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4									
Overload current protection	Present	Safety	UL, cUL, CE/EN60950-1									
Power Consumption	<table border="1"> <tr> <td>DC input</td> <td>DC 12V</td> </tr> </table>	DC input	DC 12V	Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)							
DC input	DC 12V											
		MTBF	243301 hrs									
		Warranty	5 years									

*Optional

ORDERING INFORMATION

- **IES-0216C.....P/N: 8350-651**
16 10/100TX + 2 10/100/1000T/Giga SFP Industrial Switch, Standard Operating Temperature (-20°C to 65°C)
- **IES-0216C-E.....P/N: 8350-656**
16 10/100TX + 2 10/100/1000T/Giga SFP Industrial Switch, Wide Operating Temperature (-40°C~75°C)
- **IES-0216C-AC.....P/N: 8350-651-AC**
16 10/100TX + 2 10/100/1000T/Giga SFP Industrial Switch, Standard Operating Temperature (-20°C to 65°C); 12~36VAC
- **IES-0216C-E-AC.....P/N: 8350-656-AC**
16 10/100TX + 2 10/100/1000T/Giga SFP Industrial Switch, Wide Operating Temperature (-40°C~75°C); 12~36VAC

OPTIONAL ACCESSORIES

DIN Rail Power

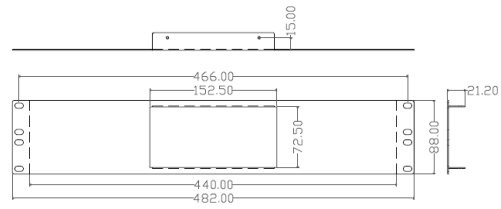
- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 18 Watts at 75°C.)
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 9 Watts at 75°C.)
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1120-48F** 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

Mini GBIC (SFP)

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|--|--|
| ■ 8330-162 MINI GBIC 1000SX (LC/0.5km) Transceiver | ■ 8330-187 LTSFP-1000BX-20KM Transceiver (WDM 1550) |
| ■ 8330-163 MINI GBIC 1000SX2 (LC/2km) Transceiver | ■ 8330-180 LTSFP-1000BX-40KM Transceiver (WDM 1310) |
| ■ 8330-165 MINI GBIC 1000LX (LC/10km) Transceiver | ■ 8330-182 LTSFP-1000BX-40KM Transceiver (WDM 1550) |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/40km) Transceiver | ■ 8330-181 LTSFP-1000BX-60KM Transceiver (WDM 1310) |
| ■ 8330-166 MINI GBIC 1000XD (LC/50km) Transceiver | ■ 8330-183 LTSFP-1000BX-60KM Transceiver (WDM 1550) |
| ■ 8330-169 MINI GBIC 1000XD (LC/60km) Transceiver | ■ 8330-184 LTSFP-1000BX-80KM Transceiver (WDM 1490) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/80km) Transceiver | ■ 8330-185 LTSFP-1000BX-80KM Transceiver (WDM 1550) |
| ■ 8330-170 MINI GBIC 1000EZ (120km) Transceiver | |
| ■ 8330-168 MINI GBIC 10/100/1000T (100m) Transceiver | |
| ■ 8330-060 100Base FX 2KM, Multi-mode, LC Transceiver | |
| ■ 8330-065 100Base FX 5KM, Multi-mode, LC Transceiver | |
| ■ 8330-061 100Base LX 30KM, Single-mode, LC Transceiver | |
| ■ 8330-188 LTSFP-1000BX-10KM Transceiver (WDM 1310) | |
| ■ 8330-189 LTSFP-1000BX-10KM Transceiver (WDM 1550) | |
| ■ 8330-186 LTSFP-1000BX-20KM Transceiver (WDM 1310) | |

Rack Mounting Kit

- **MBAK19001** 19" Rack Mounting Kit for 72x105x152mm Industrial Switch



Lantech Communications Global Inc.

www.lantechcom.tw
info@lantechcom.tw

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