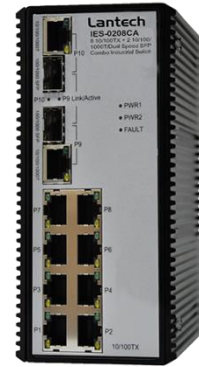


# IES-0208CA

## 8 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo Industrial Switch

- *Input voltage 9.5V~60V, Redundant power input*
- *Relay Alarm Output System Events*
- *-40°C~75°C (-E) Extended Operation Temperature*



### OVERVIEW

The Lantech IES-0208CA is an 8 10/100BaseTX + 2 10/100/1000T/Dual Speed SFP Combo industrial plug-and-play switch. The SFP connection is designed with 100M or 1000M dual speed. Equipped with DC 9.5~60V redundant input power, the Lantech IES-0208CA is able to work with the different environments. It also supports relay contact to connect with alarm system in case of power or port failure.

The IES-0208CA is designed to meet the demands of industrial environments, comes packaged in a robust IP30 housing and has been tested extensively to meet Industrial EMI and EMC standards. Rigorous mechanical testing has also been undertaken to comply with free fall, shock and vibration stability

test requirements, which ensure long term reliability in critical industrial environments.

Besides redundant power supply with overload current protection, the IES-0208CA supports EFT protection for 2000VDC power and 6000VDC Ethernet ESD protection, which can reduce unstable environment damage caused by power line and Ethernet.

The Lantech IES-0208CA and -E model working under -40°C~75°C are the best to use in Industrial automation, Transportation, Semi-conductor factory, Heavy Industrial factory and other ruggedized environments.

### FEATURES & BENEFITS

#### ■ System Interface/Performance

- *RJ-45 port support Auto MDI/MDI-X Function*
- *SFP (Mini-GBIC) supports 100/1000 dual speed*
- *Back-plane (Switching Fabric): 5.6Gbps*
- *1Mbits Packet Buffer*
- *8K MAC Address Table*
- *Support standard operating temperature (-20°C~60°C)*
- *Support extended operating temperature(-40°C~75°C)*

#### ■ Power Supply

- *Redundant Power Design*
- *DC9.5~60V input; -48V single input*

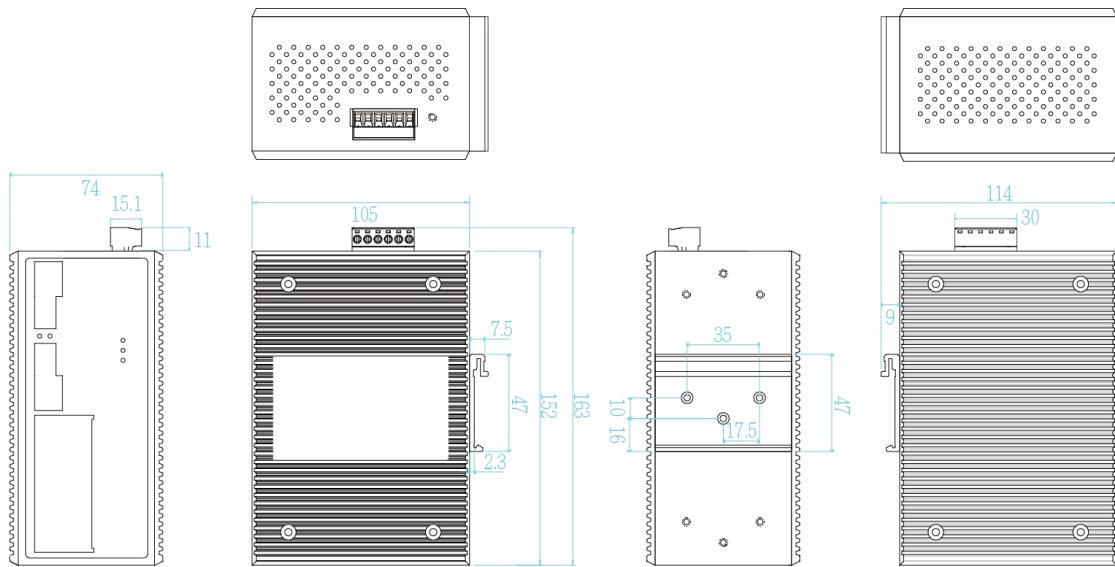
#### ■ Case/Installation

- *IP-30 Protection*
- *DIN Rail and Wall Mount Design(optional)*

#### ■ Relay Alarm

- *Relay output for port breakdown, power fail and alarm*

**DIMENSIONS (unit=mm)**



**SPECIFICATION**

Hardware Specification		
IEEE Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure	Relay Output Provides one relay output for port breakdown, power fail and alarm.  Alarm Relay current carry ability: 1A @ DC24V
Switch Architecture	Back-plane (Switching Fabric): 5.6Gbps	Power Supply External Power Supply: DC 9.5~60V, Redundant power DC 9.5V~DC 60V and connective removable terminal block.
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	Power Consumption 10 Watts (Max.)
Packet Buffer	1Mbits	Operating Humidity 5% ~ 95% (Non-condensing)
MAC Address	8K MAC address table	Operating Temperature Standard: -20°C~60°C / -13°F~140°F
Connectors	10/100TX: 8 x RJ-45 10/100/1000T/ Mini-GBIC Combo: 2 x RJ-45 + 2 x 100/1000 SFP sockets	Storage Temperature -40°C~85°C / -40°F~185°F
Network Cable	10Base-T: UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)	Case Dimension IP-30, 74mm (W) x 114mm (D) x 152mm (H)
Optical Fiber	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)	Installation Provide DIN rail kit and optional wall mount ear for wall mount or DIN-type cabinet install
Protocol	CSMA/CD	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 EN61000-6-2, CE EN55032 Class A, CE EN55024
LED	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Red),  8 port 10/100: Link/Activity (Green), Full duplex/Collision (Yellow), Power Feeding (Green)	Stability Testing IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
		Warranty 5 years

\*Future Release  
\*\*Optional

## ORDERING INFORMATION

- **IES-0208CA.....P/N: 8360-451**  
8 10/100TX + 2 10/100/1000T/ Dual Speed SFP Combo Industrial Switch; -20~60C
- **IES-0208CA-E.....P/N: 8360-452**  
8 10/100TX + 2 10/100/1000T/ Dual Speed SFP Combo Industrial Switch; -40~75C

## OPTIONAL ACCESSORIES

## DIN Rail Power

- **MDR-40 Series** 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)
- **MDR-20 Series** 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

## Mini GBIC (SFP)

- |  |   |
|--|---|
| ■ <b>8330-162X</b> MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver    | ■ <b>8330-187</b> 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550) |
| ■ <b>8330-163X</b> MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver     | ■ <b>8330-180</b> 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310) |
| ■ <b>8330-165X</b> MINI GBIC 1000LX (LC/SM/10KM) Transceiver     | ■ <b>8330-182</b> 1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550) |
| ■ <b>8340-0591</b> MINI GBIC 1000LHX (LC/SM/40KM) Transceiver    | ■ <b>8330-181</b> 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310) |
| ■ <b>8330-166</b> MINI GBIC 1000XD (LC/SM/50KM) Transceiver      | ■ <b>8330-183</b> 1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550) |
| ■ <b>8330-169</b> MINI GBIC 1000XD (LC/SM/60KM) Transceiver      | ■ <b>8330-184</b> 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490) |
| ■ <b>8330-167</b> MINI GBIC 1000ZX (LC/SM/80KM) Transceiver      | ■ <b>8330-185</b> 1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550) |
| ■ <b>8330-170</b> MINI GBIC 1000EZX (LC/SM/120KM) Transceiver    | ■ <b>8330-071</b> 125Mbps BiDi SFP 2KM (WDM 1310) Transceiver   |
| ■ <b>8330-168</b> MINI GBIC 10/100/1000T (100m) Transceiver      | ■ <b>8330-072</b> 125Mbps BiDi SFP 2KM (WDM 1550) Transceiver   |
| ■ <b>8330-060</b> MINI GBIC 100Base (LC/MM/2KM) Transceiver      | ■ <b>8330-069</b> 125Mbps BiDi SFP 20KM (WDM 1310) Transceiver  |
| ■ <b>8330-065</b> MINI GBIC 100Base (LC/MM/5KM) Transceiver      | ■ <b>8330-068</b> 125Mbps BiDi SFP 20KM (WDM 1550) Transceiver  |
| ■ <b>8330-061</b> MINI GBIC 100Base (LC/SM/30KM) Transceiver     | ■ <b>8330-080</b> 125Mbps BiDi SFP 40KM (WDM 1310) Transceiver  |
| ■ <b>8330-197</b> 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310) | ■ <b>8330-082</b> 125Mbps BiDi SFP 40KM (WDM 1550) Transceiver  |
| ■ <b>8330-198</b> 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550) | ■ <b>8330-081</b> 125Mbps BiDi SFP 60KM (WDM 1310) Transceiver  |
| ■ <b>8330-195</b> 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)   | ■ <b>8330-083</b> 125Mbps BiDi SFP 60KM (WDM 1550) Transceiver  |
| ■ <b>8330-196</b> 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)   | ■ <b>8330-084</b> 125Mbps BiDi SFP 80KM (WDM 1310) Transceiver  |
| ■ <b>8330-188</b> 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)  | ■ <b>8330-085</b> 125Mbps BiDi SFP 80KM (WDM 1550) Transceiver  |
| ■ <b>8330-189</b> 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)  | ■ <b>8330-191</b> Dual Speed SFP 100M/1000M-LX 10KM Transceiver |
| ■ <b>8330-186</b> 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)  |   |

## Wall Mount Bracket

- **MBAK19003** Wall mount bracket for 74(W) x 105 (D) x 152 (H) mm / 96 (W) x 105 (D) x 152 (H) mm Industrial switches
- **MBAK19004** 19" Rack Mounting Kit for 74x105x152mm/74x135x152mm Industrial Switch

## Lantech Communications Global Inc.

www.lantechcom.tw  
info@lantechcom.tw

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