

# IES-1080/1062 Series



IES-1080

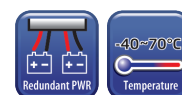


IES-1062FX

## ► Industrial 8-port unmanaged Ethernet switch

### Features

- IES-1080 provide 8x10/100Base-T(X) ports
- IES-1062GT provide 6x10/100Base-T(X) and 2x10/100/1000Base-T(X) ports
- IES-1062FX series provide 6x10/100Base-T(X) and 2x100Base-FX fiber ports
- IES-1062GF series provide 6x10/100Base-T(X) and 2x1000Base-X fiber ports
- Triple redundant DC power inputs of terminal block and power jack
- Support auto-negotiation and auto-MDI/MDI-X
- Support store and forward transmission
- Support flow control
- Warning system by relay output
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled



### Introduction

IES-1080/1062 series are unmanaged Ethernet switches with 6x10/100Base-T(X) and 2x100Base-FX, 10/100/1000Base-T(X), 1000Base-SX or 1000Base-LX ports. IES-1080/1062 series support redundant power input, relay output alarm, and surge protection. The wide operating temperature range from -40° to 70°C can satisfy most of operating environments.

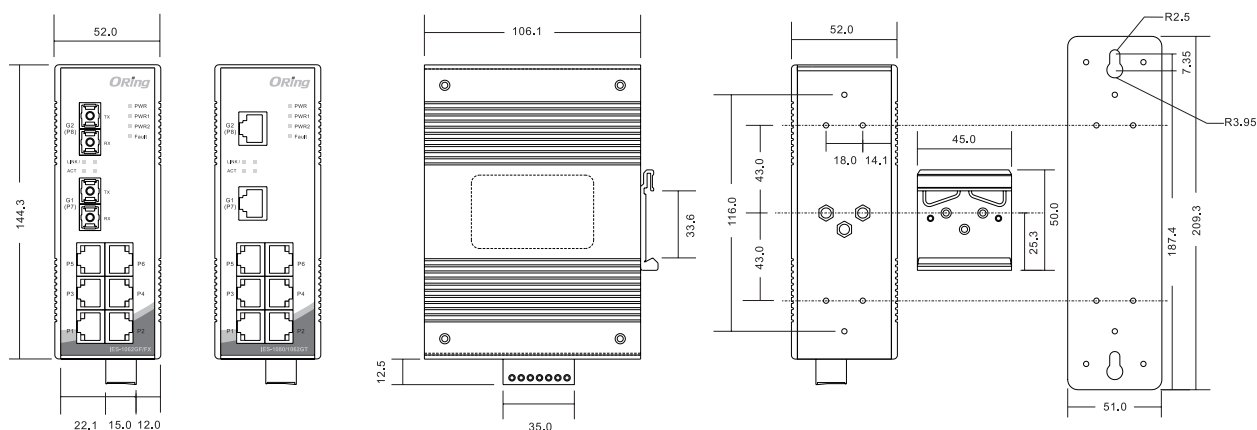
### Practical Operation

IES-1080/1062 series can be used in connecting several Ethernet devices like Ethernet I/O, IP-Camera or other Ethernet switches. In addition, there are three different power inputs to enhance its reliability, two supplied by terminal block, and one by power jack to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.



Connections of Ethernet devices

## Dimensions



(Unit=mm)

## Specifications

| ORing Switch Model                               |  | IES-1080 | IES-1062GT | IES-1062FX-MM-SC         | IES-1062FX-SS-SC | IES-1062GF-MM-SC         | IES-1062GF-SS-SC |
|--|--|----------|------------|--------------------------|------------------|--------------------------|------------------|
| <b>Physical Ports</b>                            |  |          |            |                          |                  |                          |                  |
| 10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX      |  | 8        | 6          | 6                        | 6                | 6                        | 6                |
| 10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX |  | -        | 2          | -                        | -                | -                        | -                |
| Fiber Ports Specifications                       | Fiber Ports Number                     | -        | -          | 2                        | 2                | 2                        | 2                |
|  | Fiber Ports Standard                   | -        | -          | 100Base-FX               | 100Base-FX       | 1000Base-SX              | 1000Base-LX      |
|  | Fiber Mode                             | -        | -          | Multi-mode               | Single-mode      | Multi-mode               | Single-mode      |
|  | Fiber Diameter (μm)                    | -        | -          | 62.5/125 μm<br>50/125 μm | 9/125 μm         | 62.5/125 μm<br>50/125 μm | 9/125 μm         |
|  | Fiber Optical Connector                | -        | -          | SC                       | SC               | SC                       | SC               |
|  | Typical Distance (km)                  | -        | -          | 2 km                     | 30 km            | 0.55 km                  | 10 km            |
|  | Wavelength (nm)                        | -        | -          | 1310 nm                  | 1310 nm          | 850 nm                   | 1310 nm          |
|  | Max. Output Optical Power (dBm)        | -        | -          | -14 dBm                  | -8 dBm           | -4 dBm                   | -3 dBm           |
|  | Min. Output Optical Power (dBm)        | -        | -          | -23.5 dBm                | -15 dBm          | -9.5 dBm                 | -9.5 dBm         |
|  | Max. Input Optical Power (Saturation)  | -        | -          | 0 dBm                    | 0 dBm            | 0 dBm                    | -3 dBm           |
|  | Min. Input Optical Power (Sensitivity) | -        | -          | -31 dBm                  | -34 dBm          | -18 dBm                  | -20 dBm          |
|  | Link Budget (dB)                       | -        | -          | 7.5 dB                   | 19 dB            | 8.5 dB                   | 10.5 dB          |
| <b>Technology</b>                                |  |          |            |                          |                  |                          |                  |

|  |   |         |         |         |         |         |
|--|---|---------|---------|---------|---------|---------|
| Ethernet Standards                             | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX and 100Base-FX<br>IEEE 802.3ab for 1000Base-T<br>IEEE 802.3z for 1000Base-X<br>IEEE 802.3x for Flow control |         |         |         |         |         |
| MAC Table                                      | 8192 MAC addresses  |         |         |         |         |         |
| Processing                                     | Store-and-Forward   |         |         |         |         |         |
| LED Indicators                                 |   |         |         |         |         |         |
| Power Indicator                                | Green : Power LED x 3   |         |         |         |         |         |
| Fault Indicator                                | Amber : Indicates PWR1 or PWR2 failure occurred   |         |         |         |         |         |
| 10/100Base-FX RJ45 Port Indicator              | Green for port Link/Act. Amber for Duplex/Collision   |         |         |         |         |         |
| 10/100/1000Base-T(X) / Fiber Port Indicator    | Green for port Link/Act. Amber for Link   |         |         |         |         |         |
| Fault contact                                  |   |         |         |         |         |         |
| Relay  | Relay output to carry capacity of 1A at 24VDC   |         |         |         |         |         |
| Power  |   |         |         |         |         |         |
| Redundant Input Power                          | Triple DC inputs. 12~48VDC on 7-pin terminal block, 12~45VDC on power jack  |         |         |         |         |         |
| Power Consumption (Typ.)                       | 4 Watts   | 7 Watts | 8 Watts | 8 Watts | 6 Watts | 6 Watts |
| Overload Current Protection                    | Present   |         |         |         |         |         |
| Reverse Polarity Protection                    | Present on terminal block   |         |         |         |         |         |
| Physical Characteristics                       |   |         |         |         |         |         |
| Enclosure                                      | IP-30   |         |         |         |         |         |
| Dimensions (W x D x H)                         | 52(W) x 106.1(D) x 144.3(H) mm (2.05x4.18x5.68 inch.)   |         |         |         |         |         |
| Weight (g)                                     | 666 g   | 677 g   | 680 g   | 680 g   | 685 g   | 685 g   |
| Environmental                                  |   |         |         |         |         |         |
| Storage Temperature                            | -40 to 85°C (-40 to 185°F)  |         |         |         |         |         |
| Operating Temperature                          | -40 to 70°C (-40 to 158°F)  |         |         |         |         |         |
| 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   | EN60950-1, UL508(E331061)   |         |         |         |         |         |
| MTBF (Hours)<br>(MIL-HDBK-217F2, GB, GC, 25°C) | 431,222   | 368,351 | 354,989 | 354,989 | 370,965 | 370,965 |
| Warranty                                       | 5 years   |         |         |         |         |         |

Ordering Information

IES-1 AA B CC - DD - EE

| Code Definition | 10/100Base-T(X) Port Number    | Additional Port Number      | Additional Port Type   | Fiber Optical Mode                    | Fiber Optical Connector |
|-----------------|--------------------------------|-----------------------------|--|---------------------------------------|-------------------------|
| Option          | - 08: 8 ports<br>- 06: 6 ports | - 0: 0 port<br>- 2: 2 ports | - GT: 10/100/1000Base-T(X)<br>- FX: 100Base-FX<br>- GF: 1000Base-X | - MM: Multi-mode<br>- SS: Single-mode | - SC: SC connector      |

| Available Model   | Model Name       | Description   |
|---|------------------|---|
|   | IES-1080         | Industrial 8-port unmanaged Ethernet switch with 8x10/100Base-T(X)  |
|   | IES-1062GT       | Industrial 8-port unmanaged Ethernet switch with 6x10/100Base-T(X) and 2x10/100/1000Base-T(X)   |
|   | IES-1062FX-MM-SC | Industrial 8-port unmanaged Ethernet switch with 6x10/100Base-T(X) and 2x100Base-FX, multi-mode, 2km/1310nm, SC connector   |
|   | IES-1062FX-SS-SC | Industrial 8-port unmanaged Ethernet switch with 6x10/100Base-T(X) and 2x100Base-FX, single-mode, 30km/1310nm, SC connector   |
|   | IES-1062GF-MM-SC | Industrial 8-port unmanaged Ethernet switch with 6x10/100Base-T(X) and 2x1000Base-SX, multi-mode, 550m/850nm, SC connector  |
|   | IES-1062GF-SS-SC | Industrial 8-port unmanaged Ethernet switch with 6x10/100Base-T(X) and 2x1000Base-LX, single-mode, 10km/1310nm, SC connector  |
| <b>Packing List</b> <ul style="list-style-type: none"><li>IES-1080 / 1062 series</li><li>DIN-Rail Kit</li><li>Wall-mount Kit</li><li>Quick Installation Guide</li></ul> |                  | <b>Optional Accessories</b> <ul style="list-style-type: none"><li>DR-45 series, 45W DIN-Rail power supply</li><li>DR-75 series, 75W DIN-Rail power supply</li><li>DR-120 series, 120W DIN-Rail power supply</li><li>PAA-121000, 12VDC/1000mA 12W Power Adapter with universal 100 to 240VAC input, US plug</li><li>PAE-121000, 12VDC/1000mA 12W Power Adapter with universal 100 to 240VAC input, EU plug</li><li>SDR-240-48, 240W DIN-Rail power supply</li><li>SDR-480-48, 480W DIN-Rail power supply</li></ul> |