# IES3020G Series

## DIN-Rail Mounting

### 16/20-port Full Gigabit Layer 2 Unmanaged Industrial Ethernet Switch

- Support 4 Gigabit fiber ports (SFP slots) optional, 16 Gigabit copper ports
- Support dual power supply input, input voltage: 12~48VDC
- Support -40~75℃ wide operating temperature range

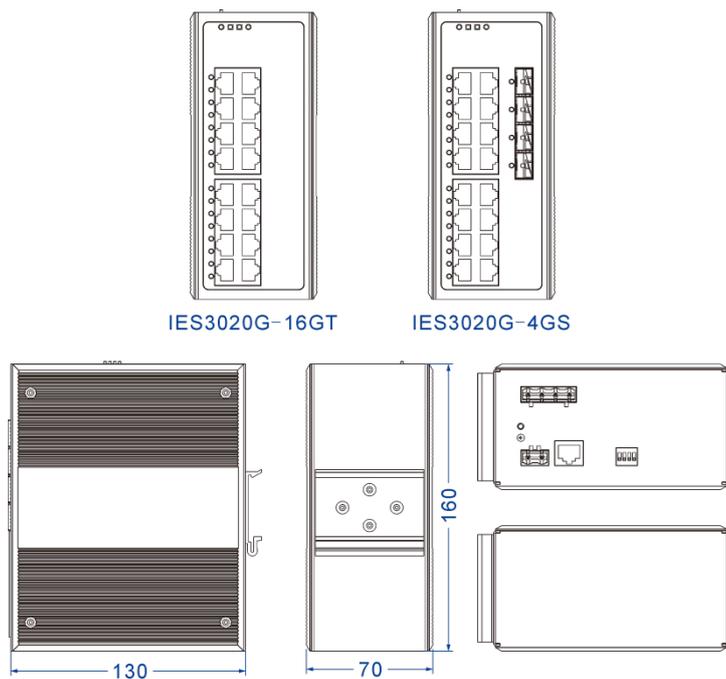CE    FC U.S.A    RoHS    Industrial Grade    RPS    IP40

# Introduction

IES3020G series are 16/20-port full Gigabit layer 2 unmanaged industrial Ethernet switches. This series provide Gigabit copper port and Gigabit SFP slot. They adopt DIN-Rail mounting to meet the requirements of different application scenes.

Power supply input is two independent power supply circuits, which can ensure the device normal operation when one of the power supplies breaks down. Design of DIP switch can achieve the device rebooting. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart grid, rail transit, smart city, safety city, new energy, aerospace, intelligent manufacturing, military project and other industrial fields.

# Dimension

Unit:mm



IES3020G-16GT    IES3020G-4GS

# Specification

| Standard & Protocol | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX |
| --- | --- |

| | |
|---|---|
| | IEEE 802.3ab for 1000Base-T<br>IEEE 802.3z for 1000Base-X |
| Interface | Copper port: 10/100/1000Base-T(X), RJ45, Automatic Flow Control,<br>Full/half Duplex Mode, MDI/MDI-X Autotunning<br>SFP slot: 1000Base-SFP |
| LED Indicator | Running Indicator, Port Indicator, Power Supply Indicator |
| Switch Property | Transmission mode: store and forward<br>MAC address: 16K<br>Packet buffer size: 12Mbit<br>Backplane bandwidth: 56G<br>Switch time delay: <10µs |
| Power Requirement | 12~48VDC, 4-pin 7.62mm pitch terminal blocks<br>dual power supply redundancy, reverse polarity protection,<br>nonpolarity |

Power Consumption

| Model | No-load (@48VDC) | Full-load (@48VDC) |
|---|---|---|
| IES3020G-4GS | 11.04W | 14.88W |
| IES3020G-16GT | 11.04W | 13.68W |

| | |
|---|---|
| Environmental Limit | Operating temperature range: -40~75℃<br>Storage temperature range: -40~85℃<br>Relative humidity: 5%～95%（no condensation） |
| Physical Characteristic | Housing: IP40 protection, metal<br>Installation: DIN-Rail mounting<br>Dimension (W x H x D): 70mm×160mm×130mm<br>Weight: ≤1.08kg |
| Industrial Standard | IEC 61000-4-2 (ESD)，Level 3<br>IEC 61000-4-4 (EFT), Level 3<br>IEC 61000-4-5 (Surge), Level 3<br>Shock: IEC 60068-2-27<br>Free fall: IEC 60068-2-32<br>Vibration: IEC 60068-2-6 |
| Certification | CE, FCC, RoHS |
| Warranty | 5 years |

# Ordering Information

| Available Models | Gigabit SFP Slot | Gigabit Copper Port | Power Supply Range |
|---|---|---|---|
| IES3020G-4GS | 4 | 16 | 12~48VDC |
| IES3020G-16GT | - | 16 | dual power supply |

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China

TEL.: +86-755-26702668 ext 835　FAX: +86-755-26703485

E-mail: ics@3onedata.com

Website: www.3onedata.com

◀ Please scan our QR code for more details