

# Compact 16-Port Giga Din-rail Switch

## IDS216G

### 16 Port Giga Ethernet Din-rail Switch

The IDS216G is engineered with a rugged mechanical design to ensure durability and reliability in challenging industrial environments. The IP40 ingress protection shields it from harsh conditions. With a wide operating temperature range of -25°C to 75°C, the IDS216G performs seamlessly in extreme climates. Enhanced protection features include anti-static (ESD) protection up to  $\pm 15\text{KV}$  air and  $\pm 8\text{KV}$  contact. Additionally, the DC 12V-58V power input offers reverse connection protection, ensuring stable and secure operation in critical industrial applications.



### Features & Benefits

#### Full Gigabit Switching

- 16-port Full-Giga Ethernet with Auto Negotiation
- 8K MAC address table
- Stores and forwards with non-blocking switch fabric
- Switching capacity: **32Gbps** for layer 2 application
- Packet Buffer: 2M
- Forwarding Latency: <10us
- Jumbo Frame: 10Kbytes
- Overall packet forwarding rate: **23.8Mpps**

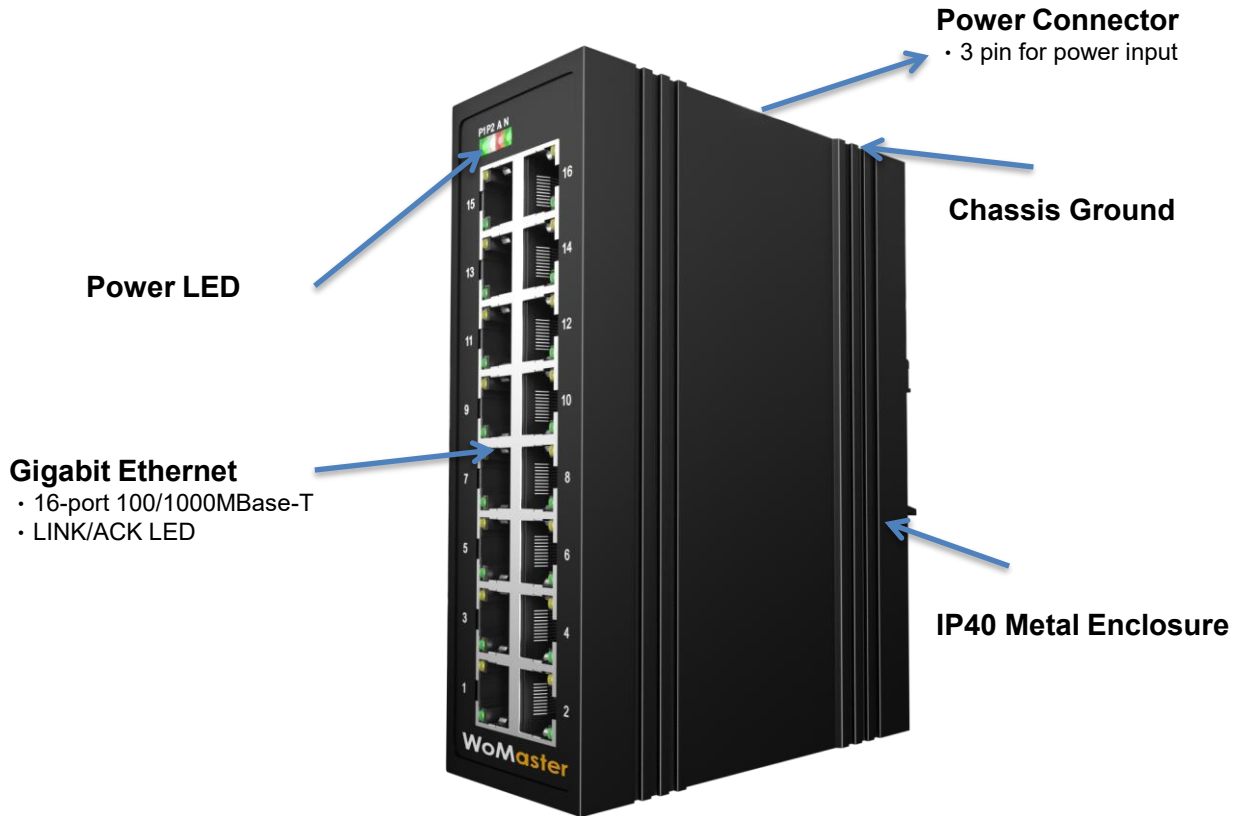
#### Rugged Mechanical Design

- Robust design protects from mechanical deformation
- IP40 ingress protection to withstand harsh environment
- Wide operating temperature range -25 ~ 75°C
- Anti-static (ESD) air  $\pm 15\text{KV}$  contact  $\pm 8\text{KV}$
- Power input DC 12V-58V provides reverse connection protection

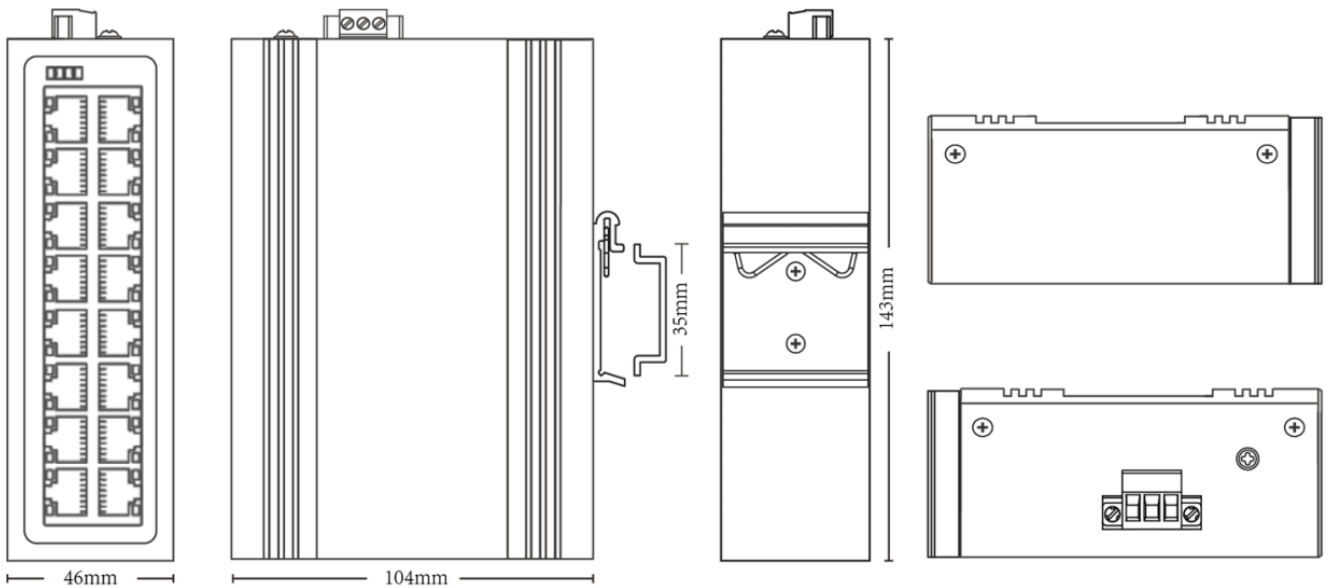


## Interfaces

### IDS216G



## Dimensions



| Technology                       |   |
|----------------------------------|---|
| Standard                         | IEEE 802.3 10Base-T Ethernet  |
|                                  | IEEE 802.3u 100Base-TX Fast Ethernet  |
|                                  | IEEE 802.3 Flow control   |
|                                  | IEEE 802.3z 1000Base-X  |
|                                  | IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper   |
| Performance                      |   |
| Switch Technology                | Store and Forward Technology with Non-Blocking Switch Fabric                                |
| Number of MAC Address            | 8K  |
| Packet Buffer Memory             | 2M bits   |
| Switching capacity               | 32Gbps application level: layer 2   |
| Overall packet forwarding rate   | 23.8Mpps  |
| Interface                        |   |
| Ethernet Port                    | 16 x 10/100/1000Base-TX RJ45, Auto Negotiation  |
| System LED                       | 1 x Power: Red On   |
| Ethernet Port LED                | Link (Yellow On), Activity (Yellow Blinking)  |
| Power input                      | 3-Pin Removable Terminal Connector  |
| Power Requirement                |   |
| Input Voltage                    | DC12V-58V   |
| Reverse Polarity Protect         | Yes   |
| Power Consumption                | store forward power consumption: < 10W  |
| Mechanical                       |   |
| Installation                     | DIN Rail  |
| Enclosure Material               | Aluminum alloy metal  |
| Dimension                        | 104 (D) x 143(H) x 46mm (W)   |
| Ingress Protection               | IP40  |
| Weight                           | ~500g without package   |
| Environmental                    |   |
| Operating Temperature & Humidity | -25°C~75°C , 5%~95% Non-Condensing  |
| Storage Temperature              | -40°C~85°C  |
| MTBF                             | 100,000 hours   |
| Warranty                         | 3 Years   |
| Surge Protection                 | IEC 61000-4-5 Level X (4KV/2KV) (8/20us) Power<br>IEC 61000-4-5 Level 4(4KV/2KV) (10/700us) |
| ESD                              | IEC 61000-4-2 Level 4 (8K/15K)  |


**Ordering Information**

| Model Name | Description                            |
|------------|--|
| IDS216G    | Din-rail 16-Port Giga Ethernet Switch  |
|            | Package List                           |
|            | 1 x Product Unit with Din Clip         |
|            | 1 x 3-pin Removable Terminal Connector |
|            | 1 x Quick Installation Guide           |


**Optional Accessory**

|           |  |
|-----------|--|
| MDR-40-24 | INPUT:85-264VAC, 120-370VDC, OUTPUT: 24VDC/1.7A, -20 ~ +70°C |
|-----------|--|