

# Industrial Ethernet Switches

## IFE-6T-UM

The Case Communications **IFE-6T-UM** is a **6-port 10/100M Industrial Ethernet Switch** designed to operate stably and reliably in harsh environments.

The 6 x 10/100M RJ45 ports can support full line-rate forwarding.

The IFE-6T-UM is capable of operating in extreme environments (mechanical, climate, electromagnetic environments) and has a protection level up to IP40.

It supports dual redundant power supply, low power consumption and fan less cooling technology.

### IFE 6T- UM

### FEATURES



#### 100M Ethernet access, full wire transmission

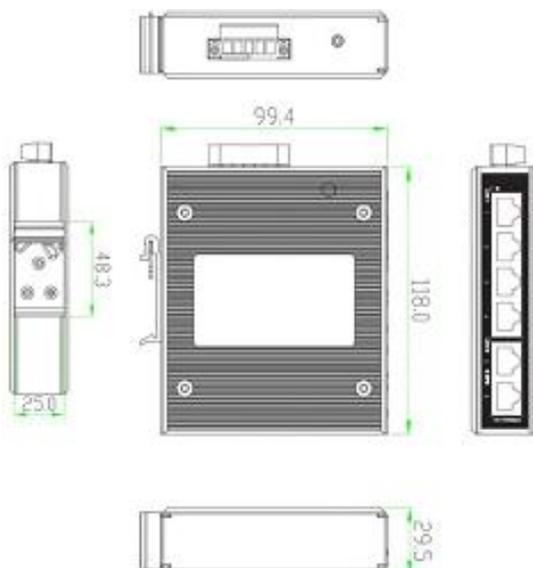
- Supports ‘10/100M RJ45 port and dual uplink RJ45 ports
- Support for non-blocking wire-speed forwarding.
- Supports full-duplex based on IEEE802.3x
- Supports half-duplex based on backpressure.

#### Port lightning protection, wide voltage input

- Contact discharge 8KV, air discharge 15KV;
- port lightning protection common-mode 4KV, differential mode 2KV;
- Industrial dual power input.

#### DC INPUT: DC INPUT: 12-48V.

- Stable and reliable
- CE, FCC, RoHS.
- Low power consumption, no fan, aluminium shell.
- User-friendly panel shows the device status via LED indicators of PWR, Link.



| TECHNICAL SPECIFICATIONS     |  |                           |            |
|------------------------------|--|---------------------------|------------|
| <b>Fixed Ports</b>           | 6 x 10/100 Base TX-RJ45  |                           |            |
| <b>Twisted Pair</b>          | <ul style="list-style-type: none"> <li>• 10base-T, Cat3, Cat4, Cat 5,</li> <li>• 100BASE-T (≤100 meter): Cat5e or later UTP(≤100 meter)</li> </ul>                                     |                           |            |
| <b>Power In</b>              | 2 sets of V=, V- redundant DC Power (5 Pin Phoenix Terminal)   |                           |            |
| <b>Ethernet Ports</b>        | 10/100Base-TX, auto-sensing, Full/half duplex MDI/MDI-X self-adaption  |                           |            |
| <b>Network Protocols</b>     | <ul style="list-style-type: none"> <li>• IEEE802.3 10BASE-T,</li> <li>• IEEE802.3i 10Base-T,</li> <li>• IEEE802.3u 100Base-TX,</li> <li>• IEEE802.3u 100Base-FX, IEEE802.3x</li> </ul> |                           |            |
| <b>Switching Mode</b>        | Store and Forward  | <b>Switching capacity</b> | 1.6Gbps    |
| <b>Forwarding rate</b>       | @ 64 bytes 0.89Mpps  | <b>Jumbo Frame</b>        | 1536 bytes |
| <b>Buffer Memory</b>         | 768K   | <b>Mac Addresses</b>      | 1K         |
| <b>LED Indicators</b>        | Power: PWR (green), network: Link (yellow), Rate: Speed (green)  |                           |            |
| <b>Working Voltage</b>       | 12-48VDC; 5 Pin industrial Phoenix terminal, support anti-reverse protection   |                           |            |
| <b>Power Consumption</b>     | Standby<4W, Full load<5W   |                           |            |
| <b>Operating temperature</b> | -40~+75°C; 5%~90% RH Non-Condensing  |                           |            |
| <b>Storage TEMP Humidity</b> | -40~+85°C; 5%~95% RH Non-Condensing  |                           |            |
| <b>Dimension (L*W*H)</b>     | 119mm x 100mm x 30mm   |                           |            |
| <b>Net /Gross Weight</b>     | <0.5 kg / (with packaging <0.7 kg)   |                           |            |
| <b>Installation</b>          | Desktop, DIN rail  |                           |            |
| <b>Housing</b>               | IP 40:   |                           |            |
| <b>Protection Levels</b>     | Lightning protection: 6KV 8/20us; Protection level:  |                           |            |
|                              | IEC61000-4- 2(ESD):±8kV contact discharge,±15kV air discharge  |                           |            |
|                              | IEC61000-4-3(RS):10V/m(80~1000MHz)   |                           |            |
|                              | IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV   |                           |            |
|                              | IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV   |                           |            |
|                              | IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)   |                           |            |
|                              | IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s  |                           |            |
|                              | IEC61000-4-9(pulsed magnet field):1000A/m IEC61000   |                           |            |
|                              | IEC61000-4-10(damped oscillation):30A/m1MHz  |                           |            |
|                              | IEC61000-4- 12/18(shockwave):CM 2.5kV,DM 1kV   |                           |            |
| <b>Mechanical Properties</b> | IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class A  |                           |            |
|                              | IEC61000-6-2(Common Industrial Standard)   |                           |            |
|                              | IEC60068-2-6 (anti vibration),<br>IEC60068-2-27 (anti shock)<br>IEC60068-2-32 (free fall)  |                           |            |
| <b>Certification</b>         | CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS  |                           |            |

| Model     | Description  | Recommended Power Supply |
|-----------|--|--------------------------|
| IFE-6T-UM | Unmanaged Industrial Ethernet switch with 6*10/100M RJ45 ports. Dual DC redundant power input & DIN rail mounting. | 24V/24W                  |