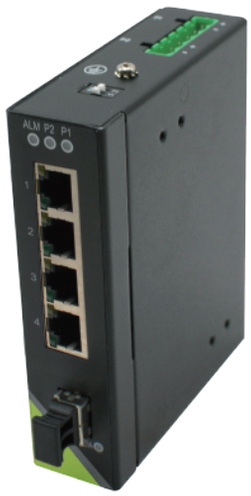
# IET4111/IET4111H Series

## Hardened / Industrial Unmanaged 4-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch



## Features

- ► Broadcast Storm Control
- ► Power alarm relay output
- ► 448 Kbit Packet Buffer Memory
- ► Enable / Disable Power Alarm
- ► Fanless design
- ► Dual power input (12 ~ 58 VDC) & Reverse power protection
- ► IP30
- ► DIN-Rail and Wall mounting option
- ► Hardened Series Wide Operating Temperature Range -40°C to 75°C (-40°F to 167°F)


**Warranty**

- ► 5-Year Warranty

## Specifications

| | |
|---|---|
| **Ethernet** | |
| Standards | IEEE802.3 10Base-T |
| | IEEE802.3u 100Base-TX/FX |
| | IEEE802.3x Flow Control |
| Packet Buffer Memory | 448 Kbits |
| Processing Type | Store and forward, wire-speed/non-blocking switching engine |
| Switch Fabric | 1 Gbps |
| Forward Filter Rate | 14,880pps (10Mbps) |
| | 148,800pps (100Mbps) |
| Ethernet Ports | 4 x RJ45 10/100 Mbps speed; Auto-negotiation; MDI/MDI-X Auto-crossover ports |
| Flow control | IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex) |
| Address Table Size | 1 K |
| Fault contact | Power alarm relay output |
| Dip switches | Enable / disable broadcast storm protection; Enable / Disable Power Alarm |
| **Optical** | |
| Fiber port | 1 x 100BaseFX port |
| Fiber Connector | 2 x LC |
| Cabling | 62.5/125um (multi-mode) |
| | 9/125um (single-mode) |
| Wavelength | 2-Fiber: 1300nm (multi-mode), 1310nm (single-mode) |
| Maximum Distance | 2Km (multi-mode) |
| | 20Km (single-mode) |
| **Electrical and Mechanical** | |
| Input Power | 12-58 VDC, Redundant Input Terminals |
| Power Consumption | 2.5 W |
| Reverse power protection | Present |
| LED Indicators | |
| Power | Power Status |
| 10/100TX (per port), 10/100/1000TX (per port) | Link/Activity & Speed |
| 100FX (per port) | Link/Activity & Port Speed |
| Dimensions (W x D x H) | 29.1 x 89.4 x 109.2 mm (without DIN clip) |
| Ingress protection | IP30 |
| Weight | 0.29 Kg |
| Mounting options | DIN-Rail / Wall-mount |

## Specifications

### Environmental

| | |
|---|---|
| Operating Temperature | |
| IET4111H Series | -40°C to 75°C (-40°F to 167°F) (cold startup at -40°C) |
| IET4111 Series | -20°C to 60°C (-4°F to 140°F) |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) |
| Relative Humidity | 5% to 95% non-condensing |
| MTBF | > 200,000 hrs |

### Compliance & Regulatory Approvals

| | |
|---|---|
| ISO9001 | Yes |
| EMC | FCC Part 15, CISPR 22 (EN55022) Class A, IEC61000-4-2, -3, -4, -5, -6 (level 3) |
| Vibration, shock & freefall | IEC60068-2-6, -27, -32 (pending) |
| Compliance | CE/FCC EN50121-4 (pending) |
| Electrical Safety | UL-508/CSA C22, EN61010-1, CE (pending) |
| RoHS and WEEE | RoHS (Pb Free) and WEEE compliant |

## Ordering Information

| Available Model | Description |
|---|---|
| **IET4111-X-DR** | Industrial Unmanaged 4-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch |
| **IET4111H-X-DR** | Hardened Unmanaged 4-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch |

| (X) = | Fiber Options | Wavelengths | Link Budget | Max. Distance |
|---|---|---|---|---|
| **M** | Multimode/2-fiber/LC | 1300nm | 12dB | 2km |
| **N** | Singlemode/2-fiber/LC | 1310nm | 19dB | 20km |

### Optional Accessories (to be purchased separately)

| | |
|---|---|
| **Power Supply** | Please refer to the power supply information at the back of the catalogue, our website www.ot-systems.com, or consult OTS sales at sales@ot-systems.com for your power system design properly. |

### Package Checklist

| | |
|---|---|
| ■ Unmanaged Switch | x 1 |
| ■ Wall Mount Plates | x 2 |
| ■ DIN-Rail Clip | x 1 |
| ■ M4 Screws (for the Wall Mount Plates & DIN Clip) | x 4 |
| ■ DC Power Terminal Block | x 1 |
| ■ Fiber Protective Cap | x 2 |
| ■ Quick Installation Guide | x 1 |

NOTES: (1) Transmission distances will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
(2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
(3) For longer transmission distances or any special requirements, please feel free to consult our sales.



**OT Systems Ltd., Sep 2015**