# ET2111 Series

**OT Systems**

## Unmanaged Industrial 2-port 10/100BASE-TX + 1-port 100BASE-FX Ethernet Switch

**E 2** 10/100    **E 1** 100FX

OT systems' ET2111 Ethernet Switch offers an easy and affordable solution for network managers to connect 10/100 Fast Ethernet from UTP to fiber optic cabling. The switches use a high performance auto-sensing exchange chip for full functionality of transfer and exchange, guaranteeing the safety and stability of data transfer. The switches are available in Standalone Wall-mount and can also operate in ET-C12 rack mount chassis, taking care of different installations.

## Features

- Converts 10/100Base-TX to 100Base-FX
- Full/Half duplex, Auto-Negotiation
- Singlemode or Multimode fiber operation
- Single or Dual-core fiber with SC or ST connectors
- Store and forward switching mechanism
- MDI/MDI-X Auto-Crossover supported
- Plug-and-Play
- -20$^{\circ}$C to 60$^{\circ}$C (-4$^{\circ}$F to 140$^{\circ}$F) operating temperature
- Wall-mount or operate in ET-C12 rack mount chassis

## Ordering Information

| Model | Description |
|---|---|
| **ET2111-X-YY** | 2-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch |

| (X) = | Fiber Options | Wavelengths | Link Budget | Max. Distance |
|---|---|---|---|---|
| A | Multimode/2-fiber/SC | 1310nm | 14dB | 2 km |
| B | Singlemode/2-fiber/SC | 1310nm | 21dB | 20 km |
| C | Multimode/WDM 1-fiber/SC | TX:1310nm/RX:1550nm | 21dB | 2 km |
| D | Multimode/WDM 1-fiber/SC | TX:1550nm/RX:1310nm | 21dB | 2 km |
| E | Singlemode/WDM 1-fiber/SC | TX:1310nm/RX:1550nm | 19dB | 20 km |
| F | Singlemode/WDM 1-fiber/SC | TX:1550nm/RX:1310nm | 19dB | 20 km |
| G | Multimode/2-fiber/ST | 1310nm | 14dB | 2 km |
| H | Singlemode/2-fiber/ST | 1310nm | 21dB | 20 km |
| I | Multimode/WDM 1-fiber/ST | TX:1310nm/RX:1550nm | 21dB | 2 km |
| J | Multimode/WDM 1-fiber/ST | TX:1550nm/RX:1310nm | 21dB | 2 km |
| K | Singlemode/WDM 1-fiber/ST | TX:1310nm/RX:1550nm | 19dB | 20 km |
| L | Singlemode/WDM 1-fiber/ST | TX:1550nm/RX:1310nm | 19dB | 20 km |

| (YY) = | Installation | Power Adapter |
|---|---|---|
| SA | Standalone Wall-mount | **ET-PA/12V.** 1.25A 12VDC power adapter *(Included)*. DC Jack. (US, European, UK or Australian power plug available) |
| CM | Card Module | **From ET-C12 chassis** *(Purchase Separately)* |

NOTES: (1) Transmission distance 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) Please feel free to consult factory for any special requirement and customization

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## Specifications

### Ethernet

| | |
|---|---|
| Standards: | IEEE802.3 10BASE-T |
| | IEEE802.3u 100BASE-TX/FX |
| | IEEE802.3x |
| Processing Type: | Store and forward |
| | Half-duplex, Full-duplex |
| Forward and Filter Rate: | 14,881pps (10Mbps) |
| | 148,810pps (100Mbps) |
| Cabling: | 10Base-T: Cat5 or above |
| | 100Base-TX: Cat5 or above |
| Maximum Distance: | Cat5 UTP up to 100m |
| Connector: | 2 x RJ45 |
| Address table size: | 2048MAC addresses |

### Optical

| | |
|---|---|
| Cabling: | 62.5/125µm (Multimode) |
| | 9/125µm (Singlemode) |
| Maximum Distance: | 2km (Multimode) |
| | 20km (Singlemode) |
| Wavelength: | 1310 nm |
| | 1310/1550nm |
| Connector: | SC or ST |

### Electrical and Mechanical

| | |
|---|---|
| Input Power: | 12VDC (DC Jack) |
| Power Consumption: | 2.4W Max. 0.21A@12VDC |
| LED Indicators: | |
|   Power: | Power Status |
|   10/100TX(Per Port): | Link/Activity, Speed |
|   100FX(Per Port): | Link/Activity |
| Dimensions (WxDxH): | SA: 122 X 30 X 103mm |
| | CM: 130 X 31 X 111mm |
| Weight: | SA: 0.33Kg (0.43kg including PA) |
| | CM: 0.33Kg |
| Casing: | Aluminum case |
| Mounting Options: | Wall-mount |
| | Card Module (in ET-C12 rack mount chassis) |

### Environmental

| | |
|---|---|
| Operating Temperature: | -20$^\circ$C to 60$^\circ$C (-4$^\circ$F to 140$^\circ$F) |
| | Tested -40$^\circ$C to 70$^\circ$C (-40$^\circ$F to 158$^\circ$F) |
| Storage Temperature: | -40$^\circ$C to 85$^\circ$C (-40$^\circ$F to 185$^\circ$F) |
| Relative Humidity: | 0% to 95% non-condensing |

### Regulatory Approvals

ISO9001
FCC Class A
En55022: 2006 Class A
En55024: 1998 + A1: 2001 + A2: 2003

Network Switches