

## 2012

### Fiber & Ethernet Transmission Products Highlight





# Fiber Optic Transmission Products

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OT Systems' value-based FT-series Fiber Optic Transmission equipment offers the flexibility and reliability of transmitting digitally-coded video, data, audio, contact closure and Ethernet signals over optical fiber.

The products are particularly suited for security and surveillance systems where video and data transmission quality is a top priority.

- **1-Ch Digital Video**
- **2-Ch Digital Video**
- **4-Ch Digital Video**
- **8-Ch Digital Video**
- **Multi-Ch Digital Video**
- **Data, Audio, Contact Closure**
- **Ethernet**
- **CWDM & Add/Drop**



# Fiber Optic Transmission

## 1-Channel Video Products

### 8-bit Digital Coding



<b>FTD100Micro</b>	Microtype Tx/Rx	V <sub>1</sub>			
<b>FTD100</b>	Card Tx/Rx	V <sub>1</sub>			
<b>FTD100-xxR3</b>	Standalone/Card Rx	V <sub>3</sub>			
<b>FTD110DBMicro</b>	Microtype Tx/Rx	V <sub>1</sub>	D <sub>1</sub>		
<b>FTD110DB</b>	Card Tx/Rx	V <sub>1</sub>	D <sub>1</sub>		
<b>FTD110DB-xxR3</b>	Standalone/Card Rx	V <sub>3</sub>	D <sub>3</sub>		
<b>FTD110DACB</b>	Standalone/Card Tx/Rx	V <sub>1</sub>	D <sub>1</sub>	A <sub>1</sub>	CC <sub>1</sub>

Please refer to p. 1-18 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information

- Non-compressed 8-bit digital video transmission
- Gold-plated BNC connector for superior connectivity
- Bi-directional Data, Audio, Contact Closure options
- Multi-protocol data in RS232, RS422 & RS485 formats
- 24-bit digital Audio, balanced or unbalanced
- Support Dry Contact or TTL input
- Laser diode for optical transmission
- Modules in different sizes for various applications
- Robust design for harsh environment
- -40°C to 75°C (-40°F to 167°F) operating temperature
- Transient voltage protection on power and all signal input and outputs
- LED indicators on front and rear side
- Limited Lifetime Warranty; Advance replacement

# Fiber Optic Transmission

## 1-Channel Video Products

### 10-bit Digital Coding



<b>FT100</b>	Standalone/Card Tx/Rx	V <sup>1</sup>
<b>FT1x0DB</b>	Standalone/Card Tx/Rx	V <sup>1</sup> D <sup>1 2</sup>
<b>FT1x0AB</b>	Standalone/Card Tx/Rx	V <sup>1</sup> A <sup>1 2</sup>
<b>FT110CB</b>	Standalone/Card Tx/Rx	V <sup>1</sup> CC <sup>1</sup>
<b>FT110DBE</b>	Standalone/Card Tx/Rx	V <sup>1</sup> D <sup>1</sup> E <sup>1</sup>

Please refer to p.19-28 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information

- Non-compressed 10-bit digital high-quality video transmission
- Single-fiber operation
- Gold-plated BNC connector for superior connectivity
- Bi-directional Data, Audio, Contact Closure options
- Support full duplex 10/100Mbps Ethernet signal
- Multi-protocol data in RS232, RS422 & RS485 formats
- 24-bit digital Audio, balanced or unbalanced
- Support Dry Contact or TTL input
- Laser diode for optical transmission
- Modules in standalone or card for different applications
- Robust design for harsh environment
- -40°C to 75°C (-40°F to 167°F) operating temperature
- Transient voltage protection on power and all signal input and outputs
- LED indicators on front and rear side
- Limited Lifetime Warranty; Advance replacement

# Fiber Optic Transmission

## 2-Channel Video Products

### 10-bit Digital Coding



<b>FT200</b>	Standalone/Card Tx/Rx	V <sup>2</sup>
<b>FT2x0DB</b>	Standalone/Card Tx/Rx	V <sup>2</sup> D <sup>1</sup> <sub>2</sub>
<b>FT2x0AB</b>	Standalone/Card Tx/Rx	V <sup>2</sup> A <sup>1</sup> <sub>2</sub>
<b>FT210CB</b>	Standalone/Card Tx/Rx	V <sup>2</sup> CC <sup>1</sup>
<b>FT210DBE</b>	Standalone/Card Tx/Rx	V <sup>2</sup> D <sup>1</sup> E <sup>1</sup>

Please refer to p.29-38 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information

- Non-compressed 10-bit digital high-quality video transmission
- Single-fiber operation
- Gold-plated BNC connector for superior connectivity
- Bi-directional Data, Audio, Contact Closure options
- Support full duplex 10/100Mbps Ethernet signal
- Multi-protocol data in RS232, RS422 & RS485 formats
- 24-bit digital Audio, balanced or unbalanced
- Support Dry Contact or TTL input
- Laser diode for optical transmission
- Modules in standalone or card for different applications
- Robust design for harsh environment
- -40°C to 75°C (-40°F to 167°F) operating temperature
- Transient voltage protection on power and all signal input and outputs
- LED indicators on front and rear side
- Limited Lifetime Warranty; Advance replacement

# Fiber Optic Transmission

## 4-Channel Video Products

### 10-bit Digital Coding



<b>FT400</b>	Standalone/Card Tx/Rx	V <sup>4</sup>
<b>FT4x0DB</b>	Standalone/Card Tx/Rx	V <sup>4</sup> D <sup>1</sup> <sub>2</sub>
<b>FT4x0AB</b>	Standalone/Card Tx/Rx	V <sup>4</sup> A <sup>1</sup> <sub>2</sub>
<b>FT410CB</b>	Standalone/Card Tx/Rx	V <sup>4</sup> CC <sup>1</sup>
<b>FT410DBE</b>	Standalone/Card Tx/Rx	V <sup>4</sup> D <sup>1</sup> E <sup>1</sup>

Please refer to p.39-48 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information

- Non-compressed 10-bit digital high-quality video transmission
- Single-fiber operation
- Gold-plated BNC connector for superior connectivity
- Bi-directional Data, Audio, Contact Closure options
- Support full duplex 10/100Mbps Ethernet signal
- Multi-protocol data in RS232, RS422 & RS485 formats
- 24-bit digital Audio, balanced or unbalanced
- Support Dry Contact or TTL input
- Laser diode for optical transmission
- Modules in standalone or card for different applications
- Robust design for harsh environment
- -40°C to 75°C (-40°F to 167°F) operating temperature
- Transient voltage protection on power and all signal input and outputs
- LED indicators on front and rear side
- Limited Lifetime Warranty; Advance replacement

# Fiber Optic Transmission

## 8-Channel Video Products

### 10-bit Digital Coding



<b>FT800</b>	Standalone/Card Tx/Rx	V <sub>8</sub>
<b>FT8x0DB</b>	Standalone/Card Tx/Rx	V <sub>8</sub> D <sub>1 2</sub>
<b>FT8x0AB</b>	Standalone/Card Tx/Rx	V <sub>8</sub> A <sub>1 2</sub>
<b>FT810CB</b>	Standalone/Card Tx/Rx	V <sub>8</sub> CC <sub>1</sub>

Please refer to p.49-56 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information

- Non-compressed 10-bit digital high-quality video transmission
- Single-fiber operation
- Gold-plated BNC connector for superior connectivity
- Bi-directional Data, Audio, Contact Closure options
- Multi-protocol data in RS232, RS422 & RS485 formats
- 24-bit digital Audio, balanced or unbalanced
- Support Dry Contact or TTL input
- Laser diode for optical transmission
- Modules in standalone or card for different applications
- Robust design for harsh environment
- -40°C to 75°C (-40°F to 167°F) operating temperature
- Transient voltage protection on power and all signal input and outputs
- LED indicators on front and rear side
- Limited Lifetime Warranty; Advance replacement

# Fiber Optic Transmission

## Multi-Channel Video Products



**FT-multi channel** Rack mount type Tx/Rx



Please refer to p.57-58 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information

- Non-compressed 10-bit digital high-quality video transmission
- From 16-ch up to 64-ch of video
- Single-fiber operation
- Also available with Data, Audio, Contact Closure options
- Rack mount type with power supply unit
- -40°C to 75°C (-40°F to 167°F) operating temperature

## Data, Audio, Contact Closure Products

**FT0x0DB** Standalone/Card Tx/Rx



**FT0x0AF** Standalone/Card Tx/Rx



**FT0x0AB** Standalone/Card Tx/Rx



**FT080CF** Standalone/Card Tx/Rx



**FT010CB** Standalone/Card Tx/Rx



Please refer to p.59-68 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information

- Bi-directional Data, Audio, Contact Closure
- Multi-protocol data in multiple data formats
- 24-bit digital Audio, balanced or unbalanced
- Support Dry Contact or TTL input
- Single fiber operation
- -40°C to 75°C (-40°F to 167°F) operating temperature

# Fiber Optic Transmission

## CWDM

### FT-CWDM Standalone/Card Tx/Rx

*Please refer to p.69-70 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information*

- Multiplexes up to 9 optical signals onto 1 optical fiber cable
- 9 different wavelengths available
- Support up to 64 channels of video plus data/audio/contact closure /Ethernet signals
- Passive optical module, no power required

## Add / Drop

### FT-AD Standalone/Card

*Please refer to p.71-72 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information*

- Add or drop off signals over 9 different locations along 1 Singlemode fiber
- 9 different wavelengths available
- Add in up to 64 channels of video and drop off data/audio/contact closure/Ethernet signals in a optical fiber link
- Passive optical module, no power required

## Accessories

### FT-C18 19" Rack Mount Chassis

*Please refer to p.73 of "2012 Fiber Optic Transmission Products catalog" for product specifications and ordering information*

- Hold up to 18 slots of card modules
- Offer card modules the ability to "hot-swap"
- Include power supply unit

# Industrial Ethernet and Networking Products

Whether you are starting up a new network or migrating from older analog or serial technologies, OT Systems has Ethernet transmission products that fit your applications.

Our ET-series Media Converters and Network Switches are right fit solutions for expanding and optimizing network performance in various media, while offering the best price-to-performance ratio and suit various types Ethernet applications requiring industrially-

- **Media Converters**
- **Managed/Unmanaged Switches**
- **PoE Products**



# Ethernet Transmission

## Media Converters



### ET1111 Microtype Media Converter



Please refer to p.1-2 of "2012 Industrial Ethernet and Networking Products catalog" for product specifications and ordering information

- Industrial 10/100Base-TX to 100Base-FX Ethernet Media Converter
- Sleek Microtype design, fits within most camera housings
- Auto-negotiation, Auto-MDI/MDIX
- Support 12VDC or 24VAC power input
- -10°C to 60°C (14°F to 140°F) operating temperature



### ET1111P PoE Media Converter



Please refer to p.3-4 of "2012 Industrial Ethernet and Networking Products catalog" for product specifications and ordering information

- Industrial 10/100Base-TX to 100Base-FX Ethernet Media Converter with PoE/PSE
- Complies with 802.3af PoE (PSE) standard
- DIP-switch for selecting "Link-Fault-Pass Through" mode
- Full wire-speed forwarding rate
- Wall-mount or DIN-Rail installation
- -10°C to 60°C (14°F to 140°F) operating temperature

# Ethernet Transmission

## Media Converters

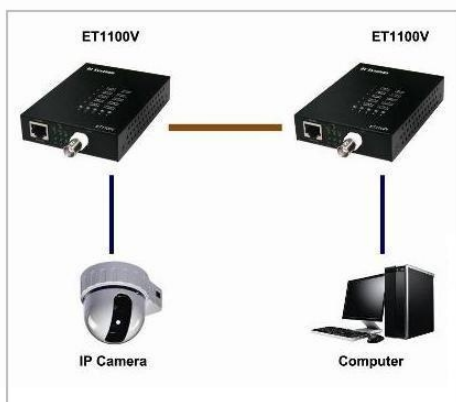


**ET1100V** Ethernet Extender



*Please refer to p. 5-6 of "2012 Industrial Ethernet and Networking Products catalog" for product specifications and ordering information*

- Industrial 10/100Base-TX Ethernet Extender over Coaxial
- Symmetrical on the VDSL, High speed Full-duplex communications over coaxial cable
- Speeds support from 85Mbps@~200m down to 1Mbps@~2600m
- Operate transparent to higher layer protocols
- Wall-mount or DIN-Rail installation
- -10°C to 60°C (14°F to 140°F) operating temperature



Ethernet Cable

Coaxial Cable

# Ethernet Transmission

## Network Switches



### ET2111 Ethernet Switch



Please refer to p.9-10 of "2012 Industrial Ethernet and Networking Products catalog" for product specifications and ordering information

- Unmanaged Industrial 2-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch
- Auto-negotiation, Auto-MDI/MDIX
- Standalone or operate in ET-C12 rack mount chassis
- -20°C to 60°C (-4°F to 140°F) operating temperature



### ET2212 Gigabit Ethernet Switch



Please refer to p.11-12 of "2012 Industrial Ethernet and Networking Products catalog" for product specifications and ordering information

- Unmanaged Industrial 2-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch
- Auto-negotiation, Auto-MDI/MDIX
- Standalone or operate in ET-C12 rack mount chassis
- -20°C to 60°C (-4°F to 140°F) operating temperature

# Ethernet Transmission

## Network Switches



### ET4111 Ethernet Switch



Please refer to p.13-14 of "2012 Industrial Ethernet and Networking Products catalog" for product specifications and ordering information

- Unmanaged Industrial 4-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch
- Complies with IEC61000-6-2 EMC standard immunity or industrial environment
- Full wire speed forwarding rate
- IP 30 casing
- DIN-Rail mounting
- -10°C to 60°C (14°F to 140°F) operating temperature



### ET4111PH PoE Ethernet Switch



Please refer to p.15-16 of "2012 Industrial Ethernet and Networking Products catalog" for product specifications and ordering information

- Unmanaged Hardened 4-port 10/100Base-TX + 1-port 100Base-FX Ethernet Switch with PoE/PSE
- Complies with 802.3af PoE(PSE), NEMA TS1 & TS2, IEC61000-6-2 standards
- Alarms for power and port link failure by relay output
- Redundant power input
- IP 30 casing
- Environmentally hardened, -40°C to 75°C (-40°F to 167°F) operating temperature

# Ethernet Transmission

## Network Switches

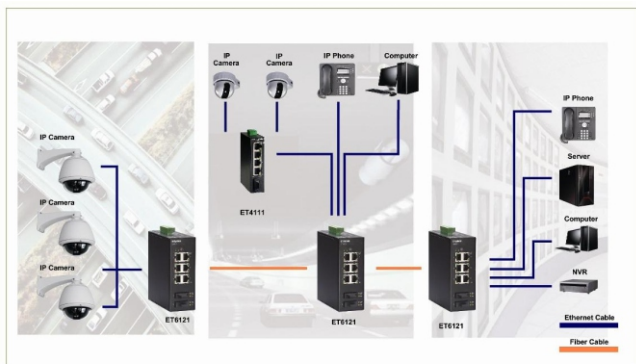


### ET6121 Ethernet Switch



Please refer to p.17-18 of "2012 Industrial Ethernet and Networking Products catalog" for product specifications and ordering information

- Unmanaged Industrial 6-port 10/100Base-TX + 2-port 100Base-FX Ethernet Switch
- Daisy-chain (add/drop) connection topology
- Complies with IEC61000-6-2 EMC standard immunity or industrial environment
- Alarms for power failure by relay output
- Redundant power input
- IP 30 casing
- Wall-mount or DIN-Rail installation
- -20°C to 60°C (-4°F to 140°F) operating temperature



# Ethernet Transmission

## Network Switches



### ET8122MH Managed Ethernet Switch



Please refer to p.19-20 of “2012 Industrial Ethernet and Networking Products catalog” for product specifications and ordering information

- Managed Hardened 8-port 10/100Base-TX + 2-port 1G SFP Ethernet Switch
- Proprietary “Ring” support for network redundancy; Recovery time <15ms
- Complies with NEMA TS1 & TS2, IEC61000-6-2 EMC, EN50121-4 standards
- Full layer 2 Ethernet switch, RSTP, MSTP, STP compatible
- IP Multicast Filtering through IGMP snooping V1, V2 & V3
- Supports port-based VLAN and IEEE802.1Q VLAN Tagging and GVRP
- Telnet, SSL/SSH, SNMP V1, V2c, V3, RMON, web browser, console, TFTP management
- Alarms for power failure by relay output
- Redundant power input
- IP 30 casing
- Wall-mount or DIN-Rail installation
- Environmentally hardened, -40°C to 75°C (-40°F to 167°F) operating temperature

# Ethernet Transmission

## Network Switches



**ET4100** Ethernet Switch



**ET4200** Gigabit Ethernet Switch



*Please refer to p.21-24 of “2012 Industrial Ethernet and Networking Products catalog” for product specifications and ordering information*

- Unmanaged Industrial 4-port 10/100Base-TX Ethernet Switch
- Unmanaged Industrial 4-port 10/100/1000Base-TX Ethernet Switch
- Auto-negotiation, Auto MDI/MDIX
- Store and forward switching mechanism
- Standalone or operate in ET-C12 rack mount chassis
- -20°C to 60°C (-4°F to 140°F) operating temperature

## Accessories



**ET-C12** 19" Rack Mount Chassis

*Please refer to p.25 of “2012 Industrial Ethernet and Networking Products catalog” for product specifications and ordering information*

- Hold up to 12 slots of modules
- Offer modules the ability to “hot-swap”
- Include power supply unit



# OT Systems

All Digital Fiber Optic Manufacturing Specialist

To meet the stringent requirement in today's security industry, OT Systems has been a reliable name for cost-effective yet high-quality transmission equipment.

For nearly 10 years, we have been dedicated to customer satisfaction and are committed to offering the following advantages to our customers:

- **Economical Pricing**
- **24/7 Design Center Assistance**
- **Timely Delivery**
- **Best In Class Warranty**
- **Advance Replacement**



[www.ot-systems.com](http://www.ot-systems.com)

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