

## ProMedia Fast Ethernet, Gigabit and PoE Media Converters

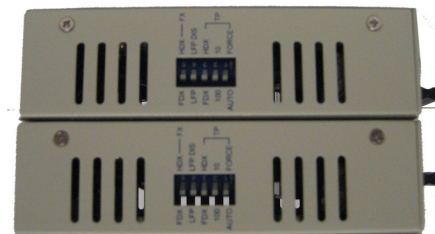
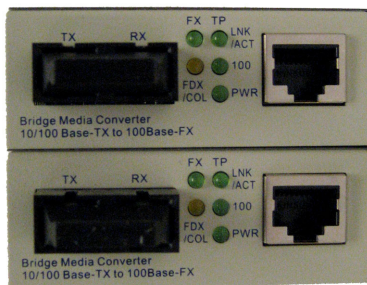
### Key Highlights

- ▶ Easy, economical upgrade to fiber
- ▶ Protects your networking electronics investment
- ▶ Use with existing switches
  - Auto-negotiation selects best mode of operation between devices
- ▶ Choose between:
  - Single port
  - Fast Ethernet and Gigabit
  - Unmanaged and managed
  - Multimode or singlemode
- ▶ PoE powered device features:
  - Link fault pass through
  - Dip switch settings
- ▶ PoE power source features:
  - Link fault pass through
  - Internal power supply
  - Over-current protection
  - Under-current detection
  - Fault protection input
  - MDI power enable/disable
  - Dip switch settings
- ▶ Managed models include:
  - Access via web, Telnet and SNMP
  - STP
  - RMON
  - SMTP support
  - DHCP support
  - Enterprise MIB
  - Alarm message support
  - Auto shutdown
- ▶ Warranty: 5 years, 1 year on power supplies

**WATERS NETWORK SYSTEMS**  
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## ProMedia Ethernet Media Conversion 10/100, 100 and 1000Mbps for Multimode or Singlemode Fiber



**ProMedia 100Base  
Media Converters**

**Waters Network Systems' Media Converters** enable the use of both fiber and copper anywhere on your network. Waters offers a variety of models to choose from that will provide an economical solution for extending distances in your network and also for integrating new equipment in your existing network.

**All ProMedia Converters** transparently support both half and full duplex auto-sensing operations. They are interoperable with any other standards-compliant Fast Ethernet and Gigabit products.

**Single-Port Media Converters** are noted for their small, rugged metal cases, ease-of-use features and energy-efficiency. These compact units can be mounted securely on a wiring closet wall, office cabinet or desk with Velcro® or by using the metal clips provided.

**PoE Models** provide power sourcing equipment (PSE) which combines data received over a fiber link with 48VDC power, providing power to a IEEE802.3af powered device over a copper cable. The converter includes a powered device (PD) signature and sensing and power monitoring features.

### ProMedia-100 Models

- Unmanaged Fast Ethernet single port
- Multimode or singlemode ST or SC connectors (5 and 20 km)

### ProMedia-100 PoE Models

- Unmanaged Fast Ethernet single port
- Multimode (ST or SC connectors)
- Link Fault Pass Through (LFP)
- Dip switch to set configurations

### ProMedia-1000 Models

- Unmanaged Gigabit single port
- Multi or singlemode LC connector (10 km)

### ProMedia-2000 Models

- Managed Gigabit single port
- Multi or singlemode LC connector (10 km)

## ProMedia Ethernet Media Converters

### ORDERING INFORMATION

Model	Description	Dimensions	Weight
<b>Unmanaged Single-Port</b>			
ProMedia-100SC	1-port 10/100Base-TX (RJ45) to 100Base-FX MM (SC)	3.7 x 2.77 x 1.03 in (94 x 70.3 x 26.2mm)	9.4 oz
ProMedia-100ST	1-port 10/100Base-TX (RJ45) to 100Base-FX MM (ST)	3.7 x 2.77 x 1.03 in (94 x 70.3 x 26.2mm)	9.4 oz
ProMedia-100SC-SM5	1-port 10/100Base-TX (RJ45) to 100Base-FX SM (5km SC)	3.7 x 2.77 x 1.03 in (94 x 70.3 x 26.2mm)	9.4 oz
ProMedia-100ST-SM20	1-port 10/100Base-TX (RJ45) to 100Base-FX SM (20km ST)	3.7 x 2.77 x 1.03 in (94 x 70.3 x 26.2mm)	9.4 oz
<b>Unmanaged Single-Port</b>			
ProMedia-1000SX	1-port 1000Base-TX (RJ45) to 1000Base-SX MM (SC)	3.7 x 2.77 x 1.03 in (94 x 70.3 x 26.2mm)	9.4 oz
ProMedia-1000LX-SM20	1-port 1000Base-TX (RJ45) to 1000Base-LX SM (20km SC)	3.7 x 2.77 x 1.03 in (94 x 70.3 x 26.2mm)	9.4 oz
<b>Managed Single-Port</b>			
ProMedia-2000SX	1-port 10/1000Base-TX (RJ45) to 1000Base-SX MM (SC)	5.55 x 3.78 x 1.73 in (141 x 96 x 44 mm)	9.4 oz
ProMedia-2000LX-SM10	1-port 10/1000Base-TX (RJ45) to 1000Base-LX SM (10km SC)	5.55 x 3.78 x 1.73 in (141 x 96 x 44 mm)	9.4 oz
<b>Unmanaged Single-Port</b>			
ProMedia-100POE-PDSC	1-port 10/100Base-TX (RJ45) to 100Base-FXPD MM (SC)	3.7 x 2.77 x 1.03 in (94 x 70.3 x 26.2mm)	9.4 oz
ProMedia-100POE-PDST	1-port 10/100Base-TX (RJ45) to 100Base-FX PD MM (ST)	3.7 x 2.77 x 1.03 in (94 x 70.3 x 26.2mm)	9.4 oz
ProMedia-100POE-PSESC	1-port 10/100Base-TX (RJ45) to 100Base-FX PSE MM (SC)	5.24 x 6.22 x 1.57 in (133 x 158 x 40 mm)	9.4 oz
ProMedia-100POE-PSEST	1-port 10/100Base-TX (RJ45) to 100Base-FX PSE MM (ST)	5.24 x 6.22 x 1.57 in (133 x 158 x 40 mm)	9.4 oz

### SPECIFICATIONS

#### NETWORK STANDARDS:

- ProMedia 100s
  - ▶ IEEE 802.3
  - ▶ IEEE 802.3u
- ProMedia 1000s
  - ▶ IEEE 802.3z
  - ▶ IEEE 802.3ab
- ProMedia 2000s
  - ▶ IEEE 802.3
  - ▶ IEEE 802.3u
  - ▶ IEEE 802.3ab
  - ▶ IEEE 802.3z
  - ▶ IEEE 802.3x
  - ▶ IEEE 802.1d/w
  - ▶ IEEE 802.1s
- ProMedia POEPD
  - ▶ IEEE 802.3u
  - ▶ IEEE 802.af
- ProMedia POEPSE
  - ▶ IEEE 802.3u

#### PROMEDIA MANAGEMENT FUNCTIONS:

- ▶ Access via web and Telnet
- ▶ SNMP
- ▶ STP
- ▶ RMON
- ▶ SMTP
- ▶ DHCP
- ▶ Enterprise MIB
- ▶ Alarm message
- ▶ Auto shutdown

#### LED INDICATORS:

- ProMedia 100s
  - ▶ Power
  - ▶ FX TX Link, TX Tx, Link FDX
- ProMedia 1000s
  - ▶ Power
  - ▶ FX Link, FX FDX, TP Link, TP ACT
- ProMedia 2000s
  - ▶ Power-on
  - ▶ Loop back, FX: LNK/ACT; UTP, LNK1000, ACT, FDX/COL
- ProMedia PoE Models
  - ▶ Power-on
  - ▶ PoE, TP Link/ACT, 100, FX Link/ACT, FDX/COL

#### RECOMMENDED CABLES:

- MM fiber:
  - ▶ 50/125, 62.5/125 or 100/140
- SM fiber:
  - ▶ 8.3/125, 8.7/125, 9/125 or 10/125
- UTP:
  - ▶ 100 OHM Category 5, transmits up to 100m (328 feet)

Note: SM (20, 40, 50, 60, 80, and 100km) is available upon request.

#### EMI/SAFETY COMPLIANCE:

FCC Part 15, Class A, CE Mark & UL

#### NETWORK CABLE CONNECTORS:

- RJ45 shielded female ports:
  - ▶ 100Mbps: Category 5 UTP/STP
  - ▶ 10Mbps: Category 3, 4, 5 UTP
- Fiber MM port connectors:
  - ▶ SC/ST
- Fiber SM port connectors:
  - ▶ SC/ST

#### POWER REQUIREMENT:

- ProMedia 100s
  - ▶ 1A@5VDC
- ProMedia 1000s
  - ▶ 2A@5VDC
- ProMedia 2000s
  - ▶ 3A@+5VDC
- ProMedia PoE Models
  - ▶ 100POEPD: 60mA@-48VDC from PSE or PoE injector
  - ▶ 100POEPSE: 100~240 VAC, 50~60Hz
    - Power Consumption: 24W

#### OPERATING ENVIRONMENT:

- Ambient:
  - ▶ 32° to 122°F (0° to 50°C)
- Ambient relative humidity:
  - ▶ 5% to 90% (non-condensing)

#### WARRANTY:

5 years (1 year on power supplies)