WATERS NETWORK SYSTEMS™
LAN Solutions by Design

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
  - 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
- Warranty: 5 years, 1 year on power supplies

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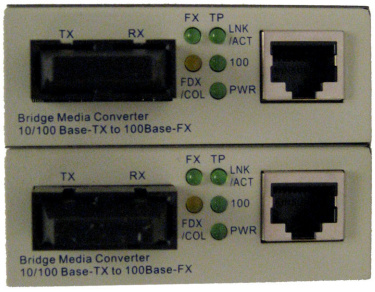
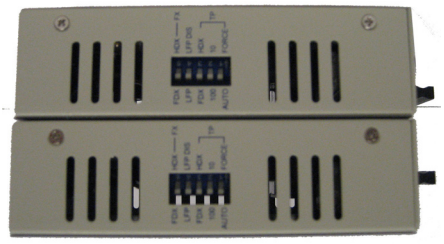
ProMedia Ethernet Media Conversion
10/100, 100 and 1000Mbps for Multimode or Singlemode Fiber





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 SC connector (10 km)

ProMedia Ethernet Media Converters

ORDERING INFORMATION

Model	Description	Dimensions	Weight
Unmanaged Single-Port			
ProMedia-100SC-3	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-3	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
Unmanaged Single-Port			
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
Unmanaged Single-Port			
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 POEPD
- IEEE 802.3u
- IEEE 802.af

ProMedia POEPSE
- IEEE 802.3u

LED INDICATORS:

ProMedia 100s
- Power
- FX TX Link, TX Tx, Link FDX

ProMedia 1000s
- Power
- FX Link, FX FDX, TP Link, TP ACT

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 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)

Waters Network Systems reserves the right to change product specifications and/or model offerings without notice.
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