

> XR-4100

WAN Converter- Ethernet

Direct Ethernet communications
between a LAN and the operations
center via the Internet

The XR-4100 WAN Converter - Ethernet is a data transceiver that enables utilities to use the Internet for long range, two-way communications between the operations center and a LAN consisting of TUNet enabled meters and field devices. It uses TCP/IP over Ethernet as the communications bridge to connect devices directly to the TUNet Network Server.

The XR-4100 is designed for utilities that already operate a fiber, WiFi, WiMAX, ADSL, dial-up or other TCP/IP based network and prefer to use the Internet as their backbone data network. It is also suited for areas where 220 MHz frequency is unavailable or impractical such as remote locations or regions with a very low meter count.

TUNet is a hybrid communications network that gives utilities the freedom to choose the best WAN strategy – wireless RF, cellular, Ethernet. Wide Area Network alternatives can be combined to meet economic, coverage, and redundancy needs.

The XR-4100 contains both an Ethernet WAN transceiver and a 900 MHz LAN portal that communicates directly with meters. Incoming messages from 900 MHz LAN devices are collected by an XR-4100 and then relayed over the Internet to the Network Server where they can be accessed by staff and incorporated into billing, outage, CIS, MDMS and other utility applications.

The device can be mounted at any location where a suitable connection and AC power ranging from 100 to 240 is available such as on the side of a building or at the top of a pole.

TUNet provides rapid and reliable two-way communications to support the full range of utility communications functionality, including remote meter reading (interval or off-cycle), outage management, power quality monitoring, load control, and remote disconnect and reconnect. Together these help utilities save money, improve operational efficiency, and provide an exceptionally high level of service to their customers.

TUNet® Infrastructure Product

Advantages

- > Designed for utilities or municipalities that prefer to use the Internet for WAN data communications, e.g. WiFi, WiMAX, ADSL, or fiber
- > Suitable for areas where 220 MHz is unavailable
- > Gives utilities choice of WAN communications options – wireless, cellular, or Ethernet
- > Multiple installation options; no meter required
- > Secure data transfer ensures data integrity and reliability
- > Small size, rugged construction
- > Secure, lockable enclosure
- > TUNet WAN options (wireless RF, GPRS/ cellular, Ethernet, WiFi) can be combined to meet economic, coverage and redundancy needs

Communication

- > Ethernet WAN
 - Standard RJ connector
 - Speed: 10/100 Mbit
- > LAN
 - Frequency range: 902–928 MHz; license exempt
 - Transmitter power: 0.5 watts (+27 dBm)
 - Antenna: internal

Power Input

- > Supply: 100 to 240 V at 60 Hz
- > Quiescent consumption: 4 watts
- > Rechargeable battery backup for outage reporting

Physical

- > Dimensions: 11" W x 13.25 H x 5" D
28 W x 33 H x 12.5 D cm
- > Weight: 6.8 lbs / 3.1 kg

Environmental

- > Operating temperature range:
-22° to +149° F / -30° to +65° C
- > Operating humidity range: 5% to 95% non-condensing

Approvals / Standards

- > FCC for CFR Title 47 Part 90 and Part 15
- > ANSI/UL 60950-1-2002
- > CSA CAN / CSA C22.2 No. 60950-1-03
- > Rain Proof Type 3R enclosure
- > CSA/UL certified

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