

Ethernet WAN Transceiver Forms 2S & 12S

WAN Collector for Ethernet-Based Networks



Tantalus transforms triple-play into a Homerun™ Network. The RT-4101 provides lightning fast connectivity & virtually limitless Smart Grid scalability.

An RT-4101 fits into a Form 2S or 12S meter socket and acts as a data collector for associated TUNet – Tantalus Utility Network – LAN devices such as smart meters. This facilitates two-way, near real time communications between a utility and Tantalus-enabled endpoints.

The Tantalus RT-4101 possesses system wide safety certifications based on applicable Underwriters Laboratory standards. The electric meter collar adapter is a safety certified low voltage power delivery system used for power provisioning to externally mounted telecommunications equipment such as Optical Network Terminals (for connecting fiber cables to homes and businesses), as well as other devices including Ethernet Routers, Cable Routers, and UPS modules.

TUNet is an end-to-end WAN/LAN/HAN data communications system that operates with both RF 220 MHz and IP-based networks including Fiber, Coaxial cable, HFC (Hybrid Fiber Coax) networks, and GSM/Cellular. WAN options can be used individually combined to meet a utility's economic, coverage and redundancy needs.



The RT-4101 is a WAN transceiver that ensures fast and reliable data communication via Ethernet for Fiber-to-the-Home or Premise (FTTH/FTTP) or cable networks. It is designed for utilities that want to drive more value from an existing fiber network by using it as the backbone for Smart Grid applications including advanced metering, demand response, and distribution automation in addition to high-speed Internet, phone and other media services. Rapid and reliable, two-way communications enables a utility to improve operational and customer responsiveness through services such as read on-request, immediate outage & restoration notification, and remote disconnect / reconnect. Furthermore, it allows a utility to introduce dynamic pricing (TOU, CPP, RTP), load shedding and other programs that help conserve energy and minimize costs.

TANTALUS ADVANTAGES

- Enables a utility to simultaneously use its fiber network for Smart Grid applications as well as triple-play Internet, digital TV and VoIP
- Ideal for utilities that prefer to use a Fiber or Fiber-to-the-Home network for data communications
- 12v, 22w power output for FTTH / FTTP ONT and ONT UPS systems
- Enables TUNet smart meters to be surgically deployed to accelerate ROI or target customers with greatest need
- Improved operations and customer service achieved through two-way communications:
 - interval & on-request consumption reads
 - voltage measurements for PQM
- Simple installation – installs in a Form 2S socket without any special tools; Form 12S optional
- Can be used for power provisioning to externally mounted telecommunications equipment such as Optical Network Terminals, Ethernet Routers, Cable Routers, and UPS modules
- WAN options can be deployed individually or be combined to meet economic, coverage and redundancy needs. Options: wireless RF, Fiber (FTTH/FTTP), Coaxial cable, HFC (Hybrid Fiber Coax) networks, and GSM/Cellular

Connectivity

- RJ-45 dual switched
- Interoperable with Alpha Flexpoint UPS

Power

- Supply: 208 / 240 V at 60 Hz
- Rechargeable battery backup for outage reporting
- Output power: 12VDC, 22W
Used to support back-up power for ONT or other network devices

Environmental

- Operating temperature range: -22° to +130° F / -30° to +50° C
- Operating humidity range: 5% to 95% non-condensing

Approvals / Standards

- FCC for Part 15
- UL 916 / CSA 22.2 No. 205
- UL 414 / CSA 22.2 No. 115
- UL 1012 / CSA 107.1
- LTR H001-2003 / TIL H17

