TANTALUS RT-3205

220 MHz WAN Transceiver Forms 2S

Long-range, two-way wireless communication

RF WAN TRANSCEIVER

The RT-3205 is the WAN transceiver that ensures reliable and efficient two-way wireless communication between a Network Controller and a cluster of LAN endpoint devices, including residential and C&I meters. Also called a "Sharkfin," an RT-3205 fits into a Form 2S meter socket and acts as a collector for associated TUNet – Tantalus Utility Network – LAN devices. It gathers meter readings, power quality data, and outage reports from multiple endpoints and relays information to the operations center over the WAN. An RT-3205 also sends commands to individual or groups of LAN devices.

The Sharkfin is the two-way hub that enables a utility to command, control, and respond to events anywhere, at any time, on the network.

Two-way, 24x7 communications is the cornerstone of advanced metering. It 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, a utility can introduce programs that conserve energy and reduce consumption such as dynamic pricing (TOU, CPP, RTP) and load shedding that help conserve energy and minimize costs.

The TUNet 220 MHz WAN provides long-range communications and can be quickly and cost-effectively established across urban and rural service areas. Endpoints can be surgically deployed unconstrained by substation configurations, allowing the utility to accelerate ROI by targeting customers with the greatest need or promise of highest return.

Tantalus' unique burst-mode technology, group addressing, and time synchronization goes beyond basic data collection by automating the distribution system right down to the meter.

Tantalus

TANTALUS ADVANTAGES

- Provides long-range, terrain hugging communications, even in challenging rural and urban environments
- Enables TUNet devices to be surgically deployed to accelerate ROI or target customers with greatest need, such as high consumption or end-of-line customers
- Improved operations and customer service achieved via near real-time communications:
  - interval & on-request consumption reads
  - voltage measurements for PQM
- Simple installation – installs in a Form 2S socket without any special tools
- 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

Radio

- Frequency range: 220 – 222 MHz
- Channels: 200
- Transmitter power: 5 watts (+37 dBm)
- Receiver sensitivity: -114 dBm at 12 dB SINAD guaranteed
- Antenna: internal

Power

- Supply: 120 to 240 V at 60 Hz (nominal)
- Quiescent consumption: 4 watts
- Rechargeable battery backup for outage reporting

Physical

- Size: 13.5" H x 7.6" W x 2.8" D
  34.2 H x 19.8 W x 7.1 D cm
- Weight: 6 lbs / 2.72 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, Sub-Part T
- FCC for CFR Title 47 Part 15b

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