

VersaComms Gateway™

VC-911/912/934 Broadband Gateway



The VC product series is the most versatile TUNet gateway available. It provides lightning fast connectivity and virtually limitless Smart Grid scalability.

The VC can be mounted at any convenient location where VAC power ranging from 120 to 277 is available, such as on the side of a building or at the top of a pole. When connected via Ethernet, this unit facilitates two-way, near real-time communications between the utility headend and TUNet-enabled endpoints.

The VC includes a low voltage power delivery system used for power provisioning and backup for externally-mounted telecommunications equipment such as ONTs (Optical Network Terminals), Ethernet routers, WiMAX, cable routers, and UPS modules.

MODULAR TUNET COMMUNICATIONS GATEWAY

The VC-911/912/934 VersaComms Gateway ensures fast and flexible data communications via Ethernet. It is designed as a flexible, high capacity network communications device for utilities to expand network coverage where required.

The VC product line serves as a core Tantalus backbone for Smart Grid applications including AMI, Demand Response, and Distribution Grid Optimization. Its mix-and-match modular design allows utilities to customize each device with the optimal mix of WAN/FAN/LAN communications.

The VersaComms Gateway's rapid, reliable two-way communications with TUNet-enabled endpoints enables TRUPush™, the push-based delivery of metering data to the utility headend in near real-time. This improves operational response time and customer satisfaction through features such as 5-minute interval data, on-request reads, outage and restoration alerts/notifications and remote disconnect/reconnect. The VC also transmits ERT® and Badger Orion® metering data, collected by TUNet endpoints, and delivers it to the utility's headend.

UTILITY ADVANTAGES WITH TUNET VERSACOMMS GATEWAY

- Provides high-capacity communications in challenging rural and urban environments
- Supports advanced TUNet applications such as Demand Response, DA-Grid Optimization, and Streetlight Control
- Enables TUNet smart meters to be surgically deployed to accelerate ROI for target customers with the greatest need
- Improves operations and customer service through features such as 5-min interval and on-request consumption reads and voltage measurements for power quality management
- Small size, rugged weather-proof construction with secure, lockable enclosure
- Every TUNet endpoint and infrastructure device is equipped with a powerful distributed computing platform for data analytics at the edge while simultaneously supporting multiple applications and protocols such as ERT, Orion, & TUNet
- Each TUNet device is Over-the-Air upgradable
- Transfers Itron 60W, 100W, 100G, and R300 series ERT data & Badger Orion data from TUNet endpoints to the utility headend
- Features Tantalus TRUPush™ technology for instant, field initiated event notifications such as outage alerts or load shed success; also pushes scheduled read data as a two-way communications device with no polling required
- Can be used for power provisioning to externally-mounted telecommunications equipment such as ONTs, Ethernet and cable routers, and UPS modules
- TUNet WAN options (wireless RF, Fiber, LTE/cellular, Ethernet, WiFi, WiMAX, satellite) can be combined to meet economic, coverage and redundancy needs

TECHNICAL SPECIFICATIONS

LAN Radio

- Frequency range: 902–928 MHz; license exempt transceiver
- Transmitter power: 1.0 watt (EIRP +33 dBm)
- Antennas: Up to 4 chassis-mounted, 1 internal

Power Input

- Supply: 90 to 305 VAC at 50/60 Hz
- Quiescent consumption: 6-18 W steady state
- Battery backed up for receiving extended outage reports

Physical

- Dimensions: 18" H x 12" W x 8" D
46 H x 31 W x 20 D cm
- NEMA 4X construction

Environmental

- Operating temperature range: -13° to +149° F / -25° to +65° C
- Operating humidity range: 5% to 95%

Auxiliary Load Supported

- 20-30 W at 11-15 VDC

Uptime No Auxiliary Load

- 6-16 hours

Uptime Max Auxiliary Load

- 3 hours

Alarms/Indicator Options

- Power Outage
- Discreet External Power Indicator
- Low Battery (future)
- Replace Battery (future)
- Tamper/Cover Open (future)
- TUNet TX/RX External Lamp (future)

VC LAN CAPACITY COMPARISON

MODEL	VC 911	VC 912	VC 934
MAX LAN SIZE*	250	500	1,000
MAX ERT ENDPOINTS*	9,500	19,000	37,000

*Maximum capacity of TUNet or ERT devices; Actual mixed capacity is dependent on LAN mode/density



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