

## Consert® *Tru* Smart Energy Gateway 2.0 Data Sheet



### Overview

The Consert® *Tru* Smart Energy Gateway (SEG) creates the only real-time data profile model of residential properties and small commercial businesses. Easily installed within smart meters, the SEG provides high-speed, two-way communications between the Consert Data Center and HAN devices located inside a customer's premises. Achieved through customer consent, this data collection creates a symbiotic relationship between a utility and its customer providing benefits and rewards for both, such as remote data acquisition, demand response, load control, meter management, and home energy management.

### Features and Benefits

- Two-way, high-speed communications with Smart Energy Profile (SEP) 1.0 Home Area Network (HAN) devices
- Collects data directly from AMI meters, Consert *Tru* Load Device Controllers and a variety of SEP 1.0 compliant Programmable Computing Thermostats (PCT)
- Two-way, high-speed, real-time communications with Consert Data Center
- WAN Communications slot supports: EVDO
- Fully redundant data path to Consert *Tru* Load Device Controllers via wireless ZigBee® and HomePlug® AV powerline
- Embedded Linux environment with self-contained memory and battery backup capabilities
- Complete security with encrypted two-way communications that meets or exceeds today's stringent requirements
- ANSI-compliant with partnership of variety meter manufacturers (I am not aware of any ANSI testing that has been performed.)
- Firmware upgradeable over the air

### Environment

- Industrial temperature rated parts (-40 C to +65 C)

### Electrical

- Supports supply voltages from 110 to 240 volts

### Communications

- ZigBee® 100mW ERP radio (2.4 GHz)
- HomePlug A/V
- CDMA EVDO Rev. A/HSPA modem
- Secure two-way communications



## Regulatory Information

### **USA-Federal Communications Commission (FCC)**

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

- **Caution**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- **Caution: Exposure to Radio Frequency Radiation.**

To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

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