Consert® Tru Smart Energy Gateway 3.1 Data Sheet

Part Numbers:

CMGYZECD–3.1 (No HomePlug)

CEVGYZECD–3.1 (Electric Vehicle)

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.x (upgradable to 2.0) 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
- Data communications with Consert ***Tru*** Load Device Controllers via wireless ZigBee®
- 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 GE I210 Series meters
- Firmware upgradeable over the air

Environment

- Industrial temperature rated parts (-40°C to +85°C)
- Assembled gateway and meter temperature range -40 °C to +65 °C

Electrical

- Supports supply voltages from 110 to 240 volts

Communications

- ZigBee® SEP 1.x upgradable to 2.0
- CDMA EVDO / HSPA modem, 3G, LTE
- Secure two-way communications

Regulatory Information

- FCC ID: YJ4CMGYZCDCZ31
- 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.

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

Note:	This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

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