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Client: Fleetwood Group, Inc.  
Model: V2420G  
Standards: FCC 15.247/IC RSS-210  
FCC/IC ID: FBRV2420G/1859A-V2420G  
Report #: 2010234

## **Appendix L: Manual**

Please refer to the following pages.

# **USER MANUAL**

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## **V2420G Module**

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<b>A</b>	<b>3/30/2011</b>	<b>Original</b>



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## 1.0 V2420G Module

### 1.1 Description

The V2420G is a low power real time locating system Gateway. The V2420G module is used to identify the location of an individual or asset location. It communicates at 2.4GHz to a link module.

The overall operation of the V2420G module is controlled by a microcontroller. This microcontroller is powered from an internal regulated supply, and uses a 16 MHz reference. The V2420G module can be powered from an external DC power pack, or POE. The microcontroller handles control of the RF communications, indicator LEDs, Ethernet communications (uses a 25 MHz reference), USB communications, an optional LCD display, and button input.

RF communications use a 2.4 GHz transceiver, and RF power amplifier. The transceiver chip uses its own 16 MHz reference oscillator for TX/RX, and is powered by an internal linear regulator. The RF power amplifier is also powered by an internal linear regulated supply. The transceiver uses an integral antenna on the PCB or an external antenna.

### 1.2 Powering the V2420G

The V2420G can be powered via POE (Power Over Ethernet) or by an external dc power pack.

### 1.3 FCC and IC

V2420G Module

Responsible Party Pertaining to the Declaration of Conformity

**Fleetwood Group, Inc.**  
**11832 James Street**  
**Holland, MI 49424**  
**Attn: Product Service Coordinator**  
**Phone: 888-467-3759**

### 1.4 Standards and Guidelines

This device complies with the following USA/Canada Regulations:

- The USA Federal Communications Commission (FCC) Rules and Regulations
- Industry Canada Rules and Regulations

This device complies with the following national and international standards:

- FCC 15.247 (10-01-09)
- IC RSS-210 Issue 8



### **1.5 FCC/IC Compliance**

This device complies with Part 15 of the FCC Rules and RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) this device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device. The user is cautioned that changes or modifications to the device that are not approved by the manufacturer could void the user's authority to operate the device.

*Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*