



Summit Data Communications, Inc.
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Akron, OH 44311 USA

March 9, 2010

Elliott TCB
684 West Maude Ave.
Sunnyvale, CA. 94085

RE: MSD30AG – Modular Approval

Modular Approval is being requested for the Summit SDC-MSD30AG. There are eight requirements that the device must meet for full modular approval. The following paragraphs detail these requirements and the manner in which the device meets them.

The module meets all of the technical specifications applicable to the frequency band of operation.

The module has its own RF shielding.

The module contains a metallic shield on the top part of the radio.

All modulation and data input(s) are buffered.

Data to the modulation circuit is buffered on the module via J2 and J3 (antenna ports) on the SDC-MSD30AG.

The module has its own power supply regulation and local reference oscillator.

The module contains its own power supply regulation and the rf reference oscillator is contained within the module. Power supply regulation is provided via component U1A.

The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c). The certification submission contains a detailed description of the configuration of all antennas that will be used with the module.

The module connects to its antenna via two Hirose U.FL connectors.

The following antennas were used for testing:

AIR-ANT 4941

- Form Factor: Whip
- Type: Dipole
- Maximum 2.4 GHz Gain: 2.2 dBi

Radial Larson Dipole

- Form Factor: Whip
- Type: Dipole
- Maximum 2.4 GHz Gain: 1.6 dBi (not used during testing)
- Maximum 5 GHz Gain: 5 dBi

HUBER+SUHNER

- Form Factor: Whip
- Type: Monopole
- Maximum 2.4 GHz Gain: 3 dBi
- Maximum 5 GHz Gain: 6.5 dBi

Installation instructions for the module explain that only these antennas may be used with the device and that the end user should not be able to access the antenna port or change antennas.

For Industry Canada, the module meets certification labeling requirements. Host devices that contain separately certified modules do not need to be re-certified, provided that they meet the following conditions:

- The host device, as a standalone unit without any separately certified modules, complies with all applicable Radio Standards Specifications.
- The host device and all the separately certified modules it contains jointly meet the safety requirements of RSS-102, if applicable.
- The host device complies with the certification labeling requirements of each of the modules it contains.

The module is appropriately labeled (refer to the label and label location drawings contained within this application).

For the FCC, the modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207.

Test data contained in this application is for the device tested as a stand-alone device. Radiated spurious emissions data and AC conducted emissions data demonstrating compliance with the requirements of Part 15 of the FCC rules for intentional radiators has been provided.

For the FCC, the modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains Transmitter Module FCC ID: XYZMODEL1” or “Contains FCC ID: XYZMODEL1.”

The module is appropriately labeled (refer to the label and label location drawings contained within this application). Information to the integrator of this system regarding the labeling requirements for the host system is contained in the instructions provided with the module (refer to the document “*Hardware Integration Guide – SDC-MSD30AG*”).

The modular transmitter must comply with any applicable RF exposure requirements.

The module meets the requirements for a portable device that may be used at separation distances of less than 2.5cm from the human body because its output power is below the threshold of $60/f_{\text{GHz}}$ mW (25mW for a 2.4GHz device).

OR

The module meets the requirements for a mobile device that may be used at separation distances of more than 20cm from the human body. Refer to the MPE calculation.

Sincerely,

A handwritten signature in black ink that reads "Ronald Seide". The signature is written in a cursive style with a large initial 'R'.

Ronald Seide
President
Summit Data Communications, Inc.