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Federal Communications Commission

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Deres ref. / Your ref.

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ØN

Tlf. direkte / Direct Line

Oslo,

To Whom It May Concern:

This letter serves as an official request for a Modular Approval. A full modular approval is being requested for the FCC ID: Y2NRC24XXHP.

Modul number:

RC2412HP-CT
RC2412HP-AT
RC2400HP

These products include a 32kHz RTC clock oscillator for the microprocessor part of the module. Variant without this 32 kHz are also requested to be approved with same FCC ID

Product ID:

RC2411HP-CT
RC2411HP-AT
RC2401HP

RC2400HP is based on a smaller PCB than RC2412HP, but have the same RF part

- Same Transceiver
- Same Reference oscillator for RF part
- Same Power amplifier /LNA
- Same RF lumped element filter

Memory options:

The module has several options in terms of memory options.

E.g. the embedded microcontroller can be used with 256 kB, 128 kB, 64 kB or 32 kB flash size. (Default is 256 kB). In addition an extra flash can be used with 128 kB or 256 kB memory and an extra EEPROM of 4 kB can be included.

Information on the options will be printed on the label as -F64 if this is a RC2412HP-CT with 64 kB flash instead of 256 kB. The memory information will be separated from the model number.

With reference to FCC Public Notice DA00-1407, the FCC ID: Y2NRC24XXHP is characterized by:

1. The module has its own RF shielding that prevents coupling between the RF circuitry of the module and any wires or circuits in the device which the module is to be installed
2. The module transmitter has a data buffer that prevents over-modulation under conditions of excessive data rates. The duty cycle of the transmitter will never go above 27% within a 100 ms interval.
3. The RF output power level control, the frequency synthesizers and modulator are all powered from an internal low-drop power regulator to ensure FCC-compliance regardless of the design of the power supplying circuitry in the device into which the module is installed.
4. The module has an integrated ceramic antenna, or a non-standard connection point/connector(U.FL)
5. The module has been tested in a stand-alone configuration, only using an open PCB carrier as test jig.
6. The module is labeled with its own FCC ID number. This marking will be repeated on the outside of the device where the module is to be installed.
7. The module is supported with a User Manual that gives instructions on how to install and operate the module in order to comply with the regulations.
8. The module is to be used in equipment that is not operated closer than 20 cm from any part of the body. The User Manual provides instructions for installation to provide a separation distance of at least 20 cm from all persons.



Ørjan Nottveit

2011-04-04
Date