

Monday, 28 November 2005

Equipment Authorization Branch
Federal Communications Commission
445 12th Street SW
Washington, DC 20554
USA

To whom it may concern,

PART 15 Unlicensed Modular Transceiver Approval for RPM3-914-17-ANT

We would like to apply for Modular Transceiver Approval for RPM3-914-17-ANT which has been verified to comply with relevant FCC rules by RFI Global Services Ltd (RFI) which is an accredited Telecommunication Certification Body (TCB)

RPM3-914-17-ANT is a complete RF transceiver module. It has its own crystal controlled Phase Locked Loop (PLL) synthesiser with Voltage Controlled Oscillator (VCO) and antenna coupled to the module using unique Reverse Polarity SMA connector. It just requires power supply and serial data.

RPM3 uses BiM3A RF transceiver which has its own RF shielding can. Module has restricted data input baud rates from 600bps to 115200bps with internal microcontroller modulating the carrier with a maximum of 64kbps bit rate.

BiM3A transceiver in RPM3 has its own internal voltage regulator to provide constant 2.8V supply to internal RF circuit.

RPM3-914-17-ANT is a RPM3-914-17-RPS with Reverse Polarity SMA (RPSMA) connector coupled to a $\frac{1}{4}$ wavelength monopole antenna with another unique RPSMA connector.

RPM3 complied with the AC line conducted requirements of Part 15.207 in stand-alone configuration.

Required FCC Labelling is described clearly on the data sheet for the RPM3.

RPM3-914-17-ANT using BiM3A-914-64 transceiver complies with FCC Part 15.249 with the Electric Field Strength of 43.7mV/m (50mV/m is the limit).

As the Electric Field Strength at 3m for the module is lower than 50mV/m, RF exposure requirement may not apply. However, end-user must take necessary precaution so that the final product complies with RF Exposure requirement.

Both Transmitter and Receiver portion are verified to comply with FCC Part 15 requirement.

Yours truly,

Sabananthan Paramananthan
Technical Manager