Mantracourt Electronics Ltd
The Drive, Farringdon,
Exeter, Devon EX5 2JB UK

tel: +44(0) 1395 232020
fax: +44(0) 1395 233190

sales@mantracourt.com
www . mantracourt .com

MODULAR APPROVAL REQUEST

Date 11th March 2015

TRaC Global
100 Frobisher Business Park
Leigh Sinton Road
Malvern
Worcestershire
WR14 1BX
UK

RE: FCC Modular Approval
FCC ID: VHARA24

To Whom It May Concern:

Please be advised that the manufacturer requests that the above-referenced model be approved for Licensed Modular Approval in accordance with the FCC Rules and Regulations.

Our Product meets the FCC modular approval policies in the following ways:

i The radio elements must have the radio frequency circuitry shielded. Physical/discrete and tuning capacitors may be located external to the shield, but must be on the module assembly;
The radio frequency circuit is shielded by the RF shielding can and all matching components are present on the module.

ii The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal;
The CC2430 IC contains a 128 byte transmit and receive FIFO buffer

iii The module must contain power supply regulation on the module;
The power supply regulator is affixed to the module in the Integrated Circuit CC2430.

iv The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b);

Mantracourt Electronics Ltd
The Drive, Farringdon,
Exeter, Devon EX5 2JB UK

tel: +44(0) 1395 232020
fax: +44(0) 1395 233190

sales@mantracourt.com
www . mantracourt .com

The internal antenna variant uses a single chip antenna. The external antenna variant uses a UFL connector and is only marketed with the antennas listed for use with this module. The list is included in the manual

v The module must demonstrate compliance in a stand-alone configuration;
The unit has been tested in a stand-alone configuration by Trac TRL Ltd.

vi The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 997198 about labelling requirements);
The FCC ID is etched into the surface of the RF Screening Can.

vii The module must comply with all specific rules applicable to the transmitter. The grantee must provide comprehensive instructions to explain compliance requirements;
Trac TRL have tested the module and shown that the module is compliant in a stand-alone configuration. Details for system integration and maintaining compliance are included in the user manual.

viii The module must comply with RF exposure requirements. For any transmitters intended for use in portable devices, SAR compliance must be demonstrated to be independent of the host device. See KDB Publication 447498 Item 2) as a guide to determine if a transmitter can be tested without being limited to a host device. If SAR compliance can only be demonstrated in specific host types or platforms, then the module type must be “limited.”
RF exposure limits have been assessed with the minimum mounting distance from the body of 2 cm. This leads to a Power density of 0.90 mW/cm^2 and meets the requirement for uncontrolled exposure limits for the general population.

Thank you for your attention to this matter.

Yours faithfully

Mantracourt Electronics Ltd

Brett James

Director: DR Willmington

Registered in England No. 1749118
Registered Office: The Drive
Farringdon, Exeter, Devon
VAT Reg No. 408 9738 16