

Information and Statements on Compliance for CE Marking

Tsien (UK) Ltd

Kestrel Radar Sensors

The following devices were tested in a system to simulate a final functional product for compliance with EMC directive 2004/108/EC, specifically Radiated Emissions, RF Fields Immunity and Electrostatic Discharge Immunity.

K2XX Pico Radar Standard K2XX Pico Radar DSP
K2 Pico Led Driver K2 Pico BlueTooth
K2 Pico Modem K2 Pico GPS
K2 Pico Zifi (ZigBee) K2 Pico IO_485

Kestrel 30CM 2+1/2 digit Led Sign
Kestrel Slow Down Led Sign
Kestrel 12cm Beacons

The applicable standards:

EN50293 Traffic Light standards
EN55022 Generic EMC standards
EN50581 RoHS (products listed are designed and manufactured to meet the directive)

A number of boards listed integrate intentional transmitters and these modules including the Antenna module for Radar processor, BlueTooth module, Modem module, ZigBee module and GPS module are supplied with original manufacturer certificates of compliance or compliance statements under the R&TTE directive to the following standards.

EN301 489-1 Common technical requirement
EN301 489-3 2.4GHz radio short range devices
EN301 489-17 2.4GHz broadband data transmission
EN301 328 Effective use of Spectrum (Bluetooth and ZigBee)
EN300 440 -1 / -2 Short Range 1GHz – 40GHz (Radar Antenna @ 24GHz)

Module details:

BlueTooth Module TiWi UB2 from LSR Research LLC
Modem Module SIM900 from Shanghai SIMcom Wireless Co. Ltd
GPS Module SIM28 from from Shanghai SIMcom Wireless Co. Ltd
ZigBee XBee ZB SMT (S2C) Module from Digi International
Antenna IPS146 from Innosent GmbH
Antenna IPS154 from Innosent GmbH
Antenna DF300 ST Electronics (Satcom &Sensors Systems) Pte Ltd
Antenna DF600 ST Electronics (Satcom &Sensors Systems) Pte Ltd

Its is the responsibility of the system integrator or manufacturer of the final equipment to ensure that there product meets the requirements of the various standards and that all appropriate CE labels and marking are placed on such equipment sold in the EU community or countries that accept the CE mark. Care and attention should be paid to co-location of Antenna's for communication modules and minimum spacing of at least 20cm should be adhered to.

Copies of the Certificates and compliance statements as well as the full test report for the system outlined above are available on written request from Tsien (UK) Ltd trading as Kestrel Radar Sensors.