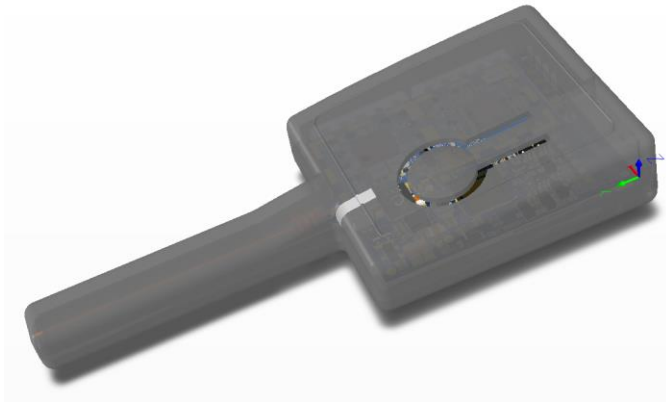




CONFIDENTIAL & PROPRIETARY

C5040 (C008TR900) v.1 TELEMATIC module



Operational description

- Telemetry transceiver
- Telematic control
- Highly robust communication protocol
- Reinforced
- Easy to install

Technical description of the system;

The C5040 (C008TR900) transceiver is an autonomous transceiver that is used primarily for the, control, reading and identification management of assets using RF (radio frequencies). The C5040 (C008TR900) may be used in conjunction with active base station receivers and controllers. The The C5040 (C008TR900) may be affixed to assets with which base stations may communicate in order to collect data.

C5040 (C008TR900) capabilities;

The C5040 (C008TR900) have been developped in order to provide the following services and functionalites.

- Data transfer, logging
- Telemetrie or telematic control
- Temperature monitoring
- Humidity monitoring
- Voltage monitoring
- Automated inventory management
- Automated fleet management

Internal component and circuit description;

The following components are included in the C008TR900 plastic enclosure:

- 1) Single PCB board
- 2) Soldered RF shield
- 3) Fix Antenna (none removable)
- 4) TX low pass filter & RX band pass filter

5) Led indicator

The board performs all of the Radio transmit/receive control functions as well as the data logging & storage functions. The 12V battery Car or external source is connected to the main board via connector and cable. The internal RF and digital circuit operating voltage are 3.6 Vdc.

Technical & RF Specifications

General information

Dimensions (enclosure)

Height : 14 mm (0.55 inches)
Width : 39 mm (1.53 inches)
Length : 94 mm (3.70 inches)
Material : ABS plastic
Color : Black
Antenna : External ¼ wave (74mm 2.91 inches)

Antenna

Type: Fixed ¼ wave soldered antenna
Inside encloser (Not user replaceable).
Maximum antenna gain : 2.5dBi

Tolerances

Operating temperature : -40 +85°C
Environmental norm : N/A

Specifications (RADIO)

Receiver

Freq. : 902.000MHz ~ 928.000MHz
Modulation : FH / 2FSK

Transmitter

Freq. : 902.000MHz ~ 928.000MHz
Modulation : FH / 2FSK ±10KHz dev.
Encoding : Variable encod.

Electrical

Primary : 5-14 Vdc
Internal: 3.6 Vdc
Total power: 350 mA at 12V (peak – 385ms)

Certifications

Industry Canada RSS-210 Issue 8
FCC (USA) Part 15

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