

CC2 - shown with TC4 module fitted

FEATURES & BENEFITS:

- **Carrier Card for the TC4 Module***
- **Standardised Interfaces**
- **Proven design**
- **Stringent Environmental Standards**
- **GPS Ready – RapidM module optional**
- **MTBF > 60 000 hours**

INTERFACES:

- **Data:** Asynchronous Serial – RS 232
- **Data & Control:** Ethernet
- **Remote Control:** Serial – RS 232
- **Radio Control:** Serial – RS 232
- **Baseband Audio:** Bi-directional 600Ω
- **6-36 VDC Supply:** MIL-STD-1275B

SUPPORT FOR TC4 FUNCTIONS:

- **Data Modems** – LF / HF / MF / VHF / UHF
- **2G ALE** – MIL-STD-188-141C, App. A
- **3G ALE** – STANAG 4538 FLSU
- **3G ALE & Packet Data** – STANAG 4538 xDL
- **Wideband HF** – MIL-STD-188-110C, App. D
- **Wideband V/UHF** – RapidM proprietary

DESCRIPTION

The CC2 is a carrier card for the *RapidM TC4* Module. The CC2 is also used in the *RapidM RM2 HF & V/UHF Data Modem* product. The CC2 and TC4 combination offers LF / HF / VHF / UHF data modem, ALE 2G and 3G controller capabilities.

The CC2 is suitable to governmental and security equipment manufacturers. It is intended for integration into radio transceivers and other communication devices using the TC4 module.

EASE OF INTEGRATION

The CC2 allows the advanced digital radio functions of the TC4 to be easily integrated into your design. The CC2 reduces the electrical interface integration effort.

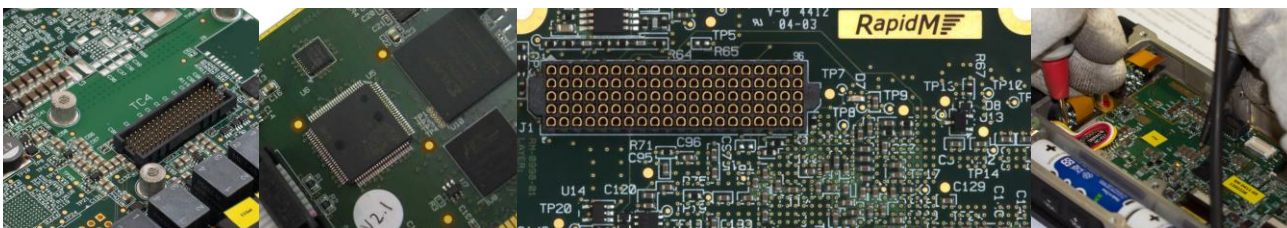
HIGH QUALITY STANDARDS

The CC2 is manufactured to the highest quality. RapidM's manufacturing facilities are regularly evaluated against stringent standards.

MATURE DESIGN

The CC2 has proven reliability and performance track record in RapidM branded as well as OEM private labelled communications products.

*** Note: TC4 module is not included**

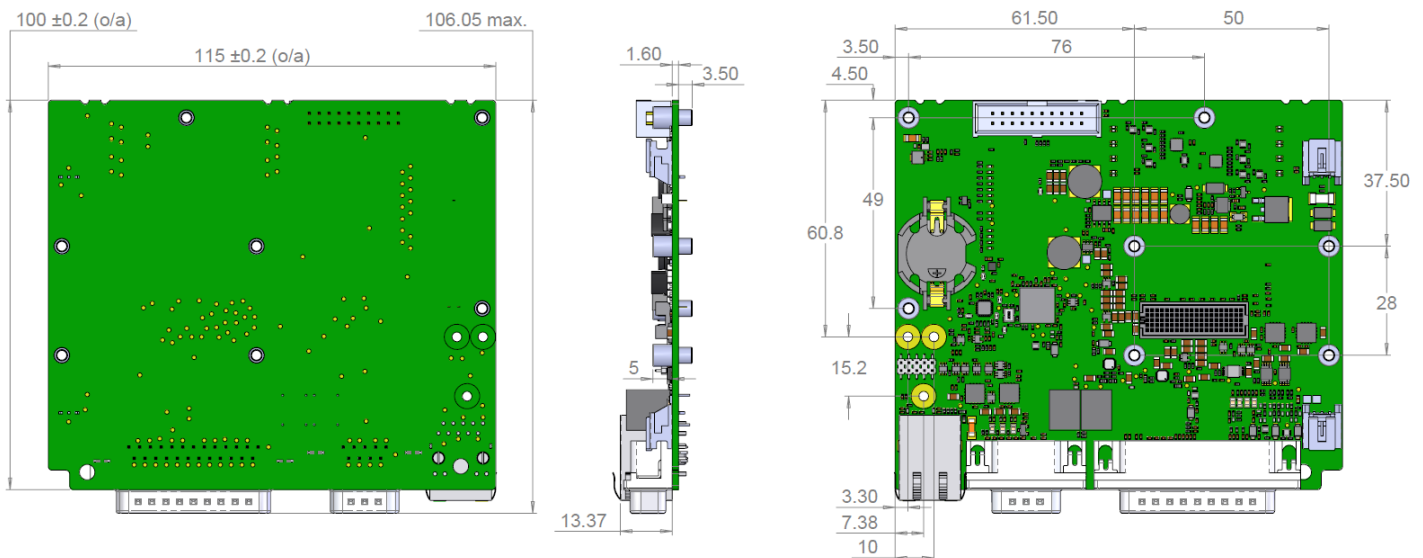


PRIMARY INTERFACES	
TC4 CONNECTOR	100-way fine pitch
GPS ANTENNA (MCX)	Int. GPS (optional): High performance internal GPS module with Trimble GPS Antenna.
ETHERNET (RJ45)	Remote Control: 10/100 Base T (IEEE 802.3U compatible), full duplex, embedded TCP/IP Stack Protocol: RapidM Control Protocol (RAP1 + RIPC) over TCP/IP
REM / GPS (DE9M)	Remote Control: RS-232, 115200 bps, 1 stop bit, 8 bit character lengths Protocol: Control Protocol (RAP1 + RIPC)
	GPS: External GPS Control Pins: RS-232 (nominally input) Data Rate: 300 to 115200 bps (nominally 4800 bps), 1/2 stop bits, 7/8 bit data. PPS line: RS 232 (NMEA) or TTL)
RADIO / DATA (DE25M)	Radio Control: Selectable RS-232, TTL and 1-wire modes (1-wire allows direct connection to Icom CT-17/CI-V) 75 to 230400 bps, 1 or 2 stop bits, 7/8 bit data (no Hardware flow control)
	Radio Audio: Input Audio: 600 Ohm balanced, -35 to +3 dBm without adjustment Output Audio: Balanced, -40 to +3 dBm adjustable into 600 ohm load Keyline: Open Collector (<36 V, 200 mA) PTT Sense Input: Pull to ground to indicate external PTT
	Raw Data: 75 to 230400 bps, RS-232 unbalanced, Rx, TX, RTS, CTS, DCD Full Duplex, 5/6/7/8 bit data, 1/2 stop bits, Hardware (RTS/CTS)/Software (XON/XOFF) Flow ctrl Half & Full Duplex operation, Standard Async and High-speed Async mode supported

HARDWARE	
SIZE	115 x 106 x 14 mm (w x d x h)
WEIGHT	120 g (incl. TC4)
SUPPLY INPUT	Voltage: 6-36 V Power: 1.95 W (typ) - MIL-STD 1275B Vehicle power protection
HOLD-UP BATTERY	Coin Cell CR2032 Lithium 3.0 V (1.8 V – 5.5 V), for TC4 time functions

ENVIRONMENTAL	
TEMPERATURE	-30°C to +70°C (operating); -30°C to +77°C (storage)

MANUFACTURING	
STANDARDS	IPC-A-610 Class 3, J-STD-001 Class 3



ORDERING INFORMATION	STOCK NUMBER	DESCRIPTION
CC2 Carrier Card Assembly	RM2-SP-CC02-003	Part: CC02 Carrier Card Assembly V03
Internal GPS Module	RM2-AC-2004-SPC	GPS: Module Int Fitted with Ant, RM2 V01

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Revision: CC2_EN_02A