

c18

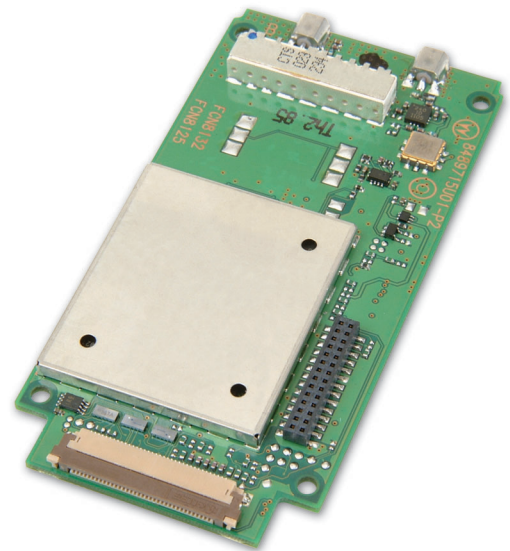
Embedded CDMA 1X 800/1900 MHz & AMPS 800 MHz Solution

The Motorola c18 is a CDMA 1X module for data and voice communications, and part of the cellular embedded modules portfolio

The c18 module delivers high-speed wireless data and voice communication in the CDMA 1X 800/1900 MHz, and 800 MHz AMPS range. It includes aGPS/AFLT capabilities and complies with the FCC E911 Phase II Location Mandate.

The c18 module has several optional interface connectors which provides greater flexibility in meeting customer needs.

The c18 module is ideally suited for the automotive, telemetry, security, EPOS industries, delivery and hand-held terminal markets.



Product Highlights

Dual band Tri mode

- CDMA 1X 800/1900 MHz
- AMPS 800 MHz

CDMA 1x voice and data

- Packet data max BR 153.6 Kbps
- Differential Audio

MT/MO SMS

FAX

Emergency & location service using aGPS/AFLT

Wide functional temperature range

Compatible with Motorola g18 GSM/GPRS embedded module

c18

Product Specifications

Product Features

Operating systems

- CDMA 1X 800/1900 MHz
- AMPS 800 MHz

Physical

- Size: 40.0 X 80.2 X 8.7 mm
- Mounting: Four 2.3 mm Ø holes
- Weight: 25 gram

Environmental

- Operating temperature: -20°C +60°C
- Functional temperature: -25°C +70°C
- Storage temperature: -40°C +85°C

Performance

Operating Voltage

- 3.6 - 4.5V DC

Current Consumption

- Call: CDMA =740 mA ; AMPS =940 mA
- Standby: CDMA = 5 mA ; AMPS =55 mA
- Off: < 5 µA

TX Output Power

- CDMA : +24 dBm@ RF port
- AMPS : +27.5 dBm@ RF port

RX Sensitivity

- Digital <-104 dBm ; Analog <-116 dBm

Interfaces

Connectors

- 70 pin 0.5mm pitch board to board
- 36 pin ZIF
- 28 pin DIN
- RF MMCX Jack 50Ω

Serial

- RS232
- USB

Data Features

CDMA 1X

- Packet Data Max BR 153.6 Kbps

CSD

- Max BR 14.4 Kbps

CDMA data

- IS707 - Max BR 14.4 Kbps
- IS95B - Max BR 64 Kbps

SMS

- MO/MT Text mode
- MO/MT PDU mode

FAX

- Class 2 group 3

Voice Features

- Telephony
- Differential analog audio lines
- Vocoder EVRC/QCELP
- DTMF support
- Audio control:
 - Echo cancellation
 - Noise suppression
 - Side tone
 - Gain control

Supplementary Service

- USSD phase II
- Call Forwarding
- Call hold; waiting; multiparty
- Missed call indicator
- AOC
- Call barring

Emergency & Location

- FCC E911 Phase II location mandate using aGPS/AFLT

Control / Status Indications

- Wake up in
- Wake up out

AT command Set

- IS 707A AT Commands
- Motorola proprietary AT commands

Accessories

- Firmware data loader
- Data logger
- Developer Kit

Regulatory & Standards

- IS-98D: Minimum mobile performance standard, Phase I and Phase II
- CDMA 2000 R.0
- IS95 A/B Phase I, Phase II
- IS-683A: Over The Air Activation
- TTY compliant
- QS9000 manufacturing

Specifications subject to change without prior notice.

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