

2G

Focus products



CINTERION
WIRELESS MODULES

Wireless Module MC39i
Standard GPRS connectivity
without complexity



Focus
Product



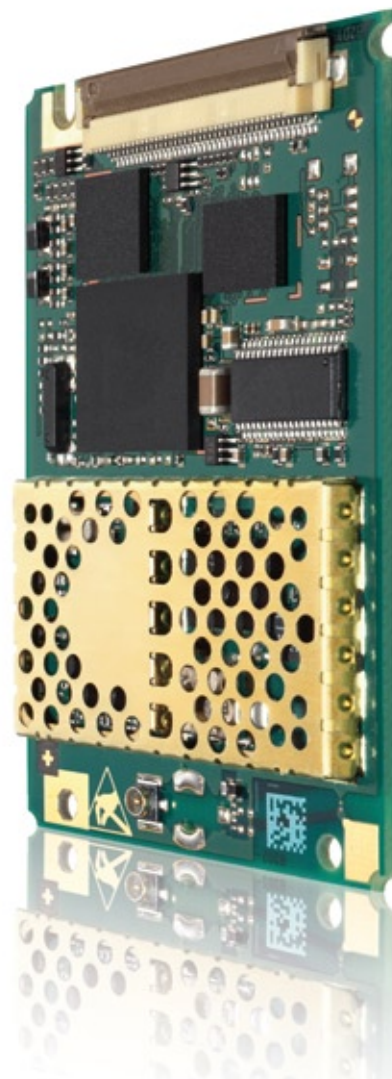
GPRS
Class 10



Dual-Band



FAX Functionality



GPRS Class 10 and Dual-Band radio are standard GSM/GPRS features that are offered by an extremely compact wireless module from Cinterion – the MC39i.

Smaller than a business card, the MC39i is very slim, and is also economical when it comes to power consumption. In addition to voice, text message (SMS), and fax communication it is particularly suitable for data transfer purposes due to its high transmission rate.

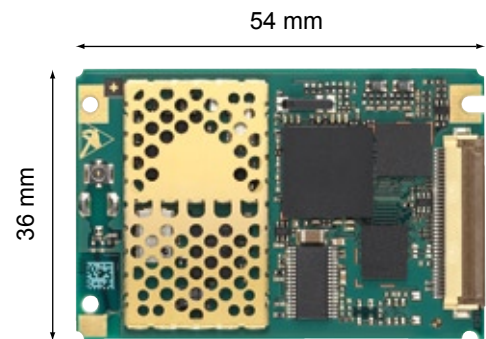
The MC39i is designed to be very robust and compact, two factors that – along with its high-performance GPRS capability – make it the ideal candidate for integration into M2M applications in fields like security, telemetry, and telematics.

In order to cut down the time to market and cost for certification for your new product, the MC39i comes with full type approval (FTA) – like all Cinterion modules.

www.cinterion.com

Wireless Module MC39i

Standard GPRS connectivity without complexity



General features

- Dual-Band GSM 900/1800 MHz
- GPRS multi-slot class 10
- Compliant to GSM phase 2/2+
- Output power:
 - Class 4 (2 W) for EGSM900
 - Class 1 (1 W) for GSM1800
- Control via AT commands
- SIM Application Toolkit
- Supply voltage range: 3.3 ... 4.8 V
- Power consumption:
 - Power down 50 μ A
 - Sleep mode (registered DRX = 6) 3.0 mA
 - Speech mode (average) 300 mA
 - GPRS class 10 (average) 590 mA
- Temperature Range
 - Normal Operation: -20°C to +70°C
 - Restricted Operation: -25°C to +70°C
 - Switch off: < -25°C and > +70°C
 - Storage: -40°C to +85°C
- Dimensions: 36 x 54.5 x 3.6 mm
- Weight: 9 g

Specification for GPRS data transmission

- GPRS class 10: max. 86 kbps (DL)
- Mobile station class B
- PBCCH support
- Coding schemes CS 1-4

Specification for CSD data transmission

- Up to 14.4 kbps
- V.110
- Non-transparent mode
- USSD support

Specification for SMS

- Point-to-point MO and MT
- SMS cell broadcast
- Text and PDU mode

Specification for voice

- Triple-rate codec for HR, FR and EFR
- Basic hands-free operation
- Echo cancellation
- Noise reduction

Specification for fax

- Group 3, class 1, 2

Interfaces

- 50 Ω GSC RF connector
- 40-pin ZIF connector:
 - Power supply
 - Audio: 2x analog
 - SIM card interface 3 V
 - Serial interface (ITU-T V.24 protocol)

Approvals

- R&TTE, GCF, CE
- Local approvals and network operator certifications



Cinterion Global Support

Local engineers, a competent helpdesk, a dedicated team of R&D specialists and an advanced development center are the hallmarks of our leading support offer.

The Cinterion support includes:

- Personal design-in consulting for hardware and software
- Extensive RF test capabilities
- GCF/PTCRB conform pretests to validate approval readiness
- Guidelines for local approvals and acceptances
- Regular training workshops

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Further information about our products and services is also accessible via www.cinterion.com

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