

# Wireless Module MC39i

## Standard GPRS connectivity without complexity

GPRS Class 10 and Dual-Band radio are standard GSM/GPRS features that are offered by an extremely compact wireless module from Siemens – 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. It's also well-suited for use in portable computers, smartphones, and GSM modems.

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 Siemens modules.



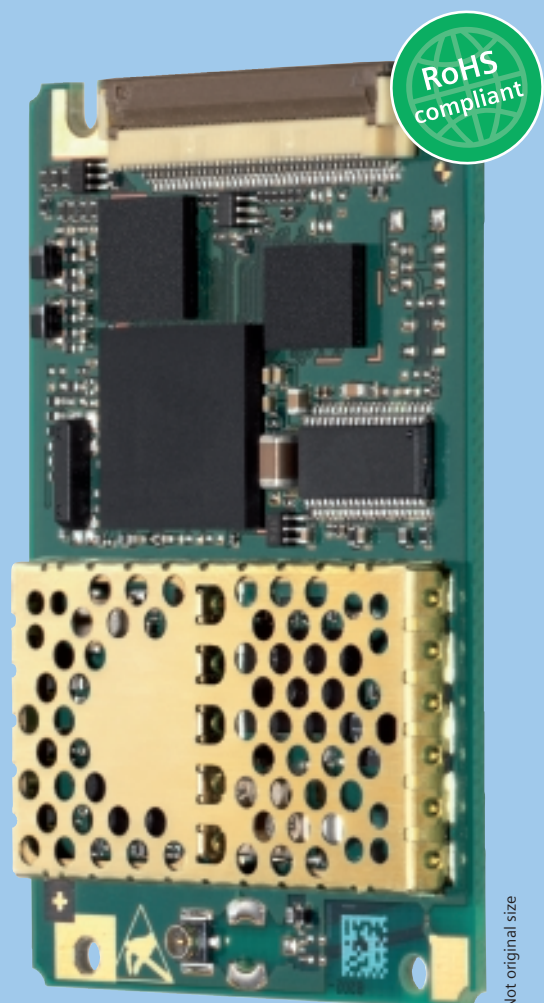
DUAL-BAND



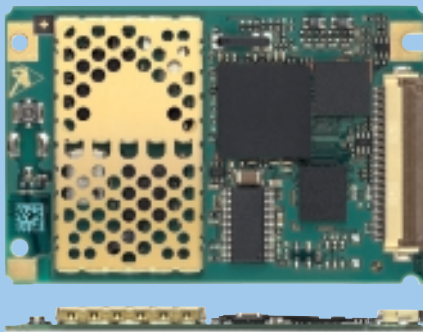
GPRS CLASS 10



FAX FUNCTIONALITY



Not original size



Original size

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## 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  $\mu$ 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 +75°C
  - Switch off: +80°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. 85.6 kbps (downlink)
- Mobile station class B
- PBCCH support
- Coding schemes CS 1-4

## Specification for CSD data transmission:

- Up to 14.4 kbit/s
- 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 fax:

- Group 3, class 1, 2

## Specification for voice:

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

## Interfaces:

- 50  $\Omega$  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

More about Siemens Wireless Modules at: [www.siemens.com/wm](http://www.siemens.com/wm)

Global thinking, local understanding.



U.K. ← Football → USA

## Here, there and everywhere

Global but local - Siemens lives up to this motto! Not only are we present locally but we are also able to open up amazing global business perspectives for you! Find the details of your local Siemens contact partner here: [www.siemens.com/wm-contact](http://www.siemens.com/wm-contact)

## Technical Support

Our application engineers support you from the design-in phase over the integration of the module into the application to the certification process.

## We protect your business

Profit from our strong Intellectual Property Rights position (IPR) – guarded by our legal professionalism you secure the fruits of your business effort.

Our technology portfolio also covers → +++ Java™ Open Platform +++ EDGE +++ GPS +++