

SIEMENS
mobile



Power-up your wireless business

Wireless
Modules



Be inspired

Small is beautiful! With MC55/MC56 Siemens mobile presents the world's smallest, double Tri-Band GSM/GPRS modules! This miniaturized, complete voice- and data solution enables infinite flexibility in the design and creation of next generation's mobile devices. Opt for MC55/MC56 and convert your ideas into revolutionary solutions for global markets! The application possibilities are virtually unlimited:

- Mobile computing devices
- Smart phones
- Computing accessory cards
- And much more to enable your customers wireless connectivity

The MC55/MC56 modules are full type approved and optimized for easy and fast integration in mobile devices. Utilizing the MC55/MC56 will reduce your development risk and investment as well as cost and time to market.

MC55/MC56

For contact and more information please visit
www.siemens.com/wm

Siemens MC55/MC56 – the world's most treasured Tri-Band GSM/GPRS modules: ultra-light, ultra-flat, ultra-flexible.

At only 2.95 mm, these revolutionary GSM/GPRS modules open up new integration possibilities for a wide spectrum of mobile computing devices, such as PDAs, smart phones and other handhelds. The easy integration path enables a wide range of applications. The MC55/MC56 modules are full type approved for worldwide operation.



Wireless Modules Benefits and hard facts



Original size

General features:

- Tri-Band GSM/GPRS 900/1800/1900 MHz (MC55)
- Tri-Band GSM/GPRS 850/1800/1900 MHz (MC56)
- GPRS multi-slot class 10
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
- Output power:
 - 2 W for GSM850/900
 - 1 W for GSM1800/1900
- Dimensions (nominal):
35 x 32.5 x 2.95 mm
(btb-connector: 3.3 mm)
- Weight: 5.5 g
- Control via AT commands
(GSM 07.07 and 07.05)
- SIM application toolkit
- WAP compliant
- MMS compliant
- Supply voltage range 3.3 ... 4.8 V
- Power consumption
(average supply current)
 - 260 mA in GSM 850/900
 - 180 mA in GSM 1800/1900
 - 300 mA in GPRS 850/900
(4 Rx, 1 Tx/class 8)
 - 230 mA in GPRS 1800/1900
(4 Rx, 2 Tx/class 10)
- Ambient temperature:
 - 20 °C to + 55 °C
- Auto switch-off at +70 °C

Specifications for fax:

- Group 3, class 2

Specifications for data:

- GPRS class 10: max. 85.6 kbps
- PBCCH support
- Coding schemes CS 1, 2, 3, 4
- CSD up to 14.4 kbps
- USSD
- Non transparent mode
- V.110
- PPP-stack

Specifications for SMS via GSM and GPRS:

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

Specifications for voice:

- Tricodec
 - Half rate (HR)
 - Full rate (FR)
 - Enhanced Full rate (EFR)
- Adaptive multi rate (AMR)
- Hands-free operation
(echo cancellation)
- Noise reduction

Drivers:

- RIL/MUX software for Microsoft®
Windows Mobile™-based devices

Approvals:

- R&TTE
- FCC
- IC
- GCF
- PCCRB
- Local approvals and mobile
operator certifications

Interfaces:

- Interface to external SIM
- Board-to-board connector
- Digital and analog audio
interfaces
- AT commands via serial interface
- Two serial interfaces
- Power supply 3.3 ... 4.8 V
- Antenna connector and
antenna pad
- Battery charger

Compatibility:

- AT cellular command interface

More about

Siemens Wireless Modules at:
www.siemens.com/wm

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Information and Communication
Mobile
Wireless Modules
Haidenauplatz 1
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Subject to changes in technology,
design and availability
Order No.:
A31001-W25-A218-X-7600
Printed in Germany