35 x 32.5 x 2.95 mm – the MC55/56 is the smallest double Tri-Band wireless module on the world market. Despite such miniaturization, the MC55/56 is a fully-fledged voice and data communications solution designed for use in M2M and mobile computing applications.

On account of its small dimensions, the GPRS Class 10 module gives you a high amount of flexibility when incorporating voice and data communications into your own application. The built-in TCP/IP stack enables you to set up a connection to the Internet in no time at all. Together the two Tri-Band models that are available – the MC55 and MC56 – provide coverage of all the GSM networks in the world, which means they allow your own application to be used globally.

With all its top-class communications features plus the built-in TCP/IP stack, the MC55/56 is the key element in a broad range of M2M applications. In addition to the driver for Microsoft® Windows Mobile™ based devices, its amazingly compact design makes it predestined for integration in PDAs, laptops, PCMCIA cards, and many other types of communications equipment.

Like all Siemens modules, the MC55/56 has received full type approval (FTA) and can therefore be used across the globe. In fact, it’s been certified by the largest carriers worldwide, including US operators.
Wireless Modules MC55/56
Reduce the size and maximize the connectivity

General features:
- Tri-Band GSM 900/1800/1900 MHz (MC55)
- TRI-Band GSM 850/1800/1900 MHz (MC56)
- GPRS multi-slot class 10
- Compliant to GSM phase 2/2+
- Output power:
  - Class 4 (2 W) for EGSM850
  - Class 4 (2 W) for EGSM900
  - Class 1 (1 W) for GSM1800
  - Class 1 (1 W) for GSM1900
- Control via AT commands
  (Hayes 3GPP TS 27.007, TS 27.005)
- SIM Application Toolkit
- TCP/IP stack access via AT commands
- Internet Services: TCP, UDP, HTTP, FTP, SMTP, POP3
- Supply voltage range: 3.3 ... 4.8 V
- Power consumption
  - Power down 50 µA
  - Sleep mode (registered DRX = 5) 3.0 mA
  - Speech mode (average) 260 mA
  - GPRS class 10 (average) 450 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: 35 x 32.5 x 2.95 mm
  (incl. B-to-B-Connector: 3.1 mm)
- Weight: 5.5 g

Specifications 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 2

Specification for voice:
- Triple-rate codec for HR, FR, and EFR
- Adaptive multi-rate AMR
- Basic hands-free operation
- Echo cancellation
- Noise reduction

Special features:
- RIL/MUX software for Microsoft® Windows Mobile™ 5.0 based devices

Interfaces:
- Hirose U.FL-R-SMT 50 ohm antenna connector
- Antenna solder pad
- Hirose 50-pin board-to-board connector
  - Power supply
  - Audio: 2 x analog, 1 x digital
  - SIM card interface 3 V
  - 2 x serial interface (ITU-T V.24 protocol)
  - Battery charger

Approvals:
- R&TTE, FCC, UL, IC, GCF, PTCRB, CE
- Local approvals and network operator certifications

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

Global thinking, local understanding.

U.K. ← Football → USA

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

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