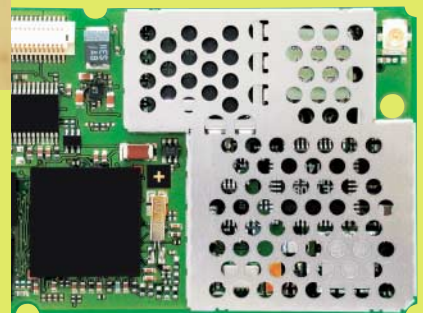




**SIEMENS**  
mobile

# Conquer the world market

Cellular Engine  
**MC45**



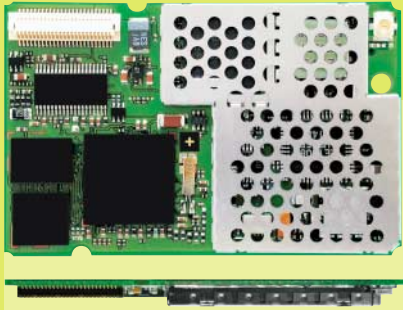
Fit for the world market! The tri-band GSM/GPRS super compact module MC45 from Siemens offers all-in-one voice communication and high speed data transmission via GPRS Class 10. It thus guarantees speedy wireless communication anywhere on the globe, including the Americas. With only 3.5 mm the extremely slim module opens up new integration fields for a wide spectrum of mobile computing devices such as PDAs, smart phones, notebooks, multimedia appliances and Internet access accessories. And the Siemens Application Engineering provides back-up support for an easy and seamless integration into your solution.

Be inspired

# Cellular Engine MC45

## The world's smallest, super-slim tri-band GSM/GPRS module for world market mobile computing solutions

actual size



- Small and super-slim (only 3.5 mm thick)
- Tri-band GSM/GPRS
- High speed data: GPRS Class 10 (up to 85 kbps)
- Optimized for mobile devices
- Full type approved (R&TTE, FCC)
- Operator approved (GCF, PTCRB)
- Flexible antenna connections
- Low power consumption
- Easy to integrate

### Target applications:

- Mobile computing devices
- Smart phones
- Multimedia & Internet appliances
- Accessory cards for PCs, PDAs etc.

### Product features:

- Tri-band EGSM 900/GSM 1800/GSM 1900
- GPRS multi-slot Class 10
- GPRS mobile station Class B
- Compliant to GSM phase 2/2+
- E-OTD
- Output power:
  - 2 W at EGSM 900
  - 1 W at GSM 1800
  - 1 W at GSM 1900
- Control via AT commands (GSM 07.07 and 07.05)
- SIM application tool kit
- WAP compliant
- Supply voltage range 3.2–4.5V
- Low power consumption
- Weight: 10g
- Dimensions: 53 x 34 x 3.5 mm (6307 mm<sup>3</sup>)
- Ambient temperature:
  - 20°C to +55°C
- Auto switch-off at +70°C

### Approvals:

- R&TTE with reference equipment
- FCC approval
- GCF approval
- PTCRB approval
- UL approval

### Data:

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

### SMS via GSM and GPRS

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

### Audio:

- Tricodec:
  - Half rate (HR)
  - Full rate (FR)
  - Enhanced full rate (EFR)
- Adaptive multi rate (AMR)
- Hands-free operation

### Fax:

- Group 3, Class 2

### Interfaces:

- Interface to external SIM
- Digital/analogue audio interface
- AT commands via serial interface
- Two serial interfaces
- Power supply 3.2–4.5V
- Antenna connector and antenna pad

### Compatibility:

- AT cellular command interface

More about the Wireless Modules from Siemens at:

[www.siemens.com/wm](http://www.siemens.com/wm)

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