

SIEMENS
mobile

Conquer the world market

Wireless
Modules



Be inspired

Efficient utilisation of network resources with PBCCH. PBCCH (Packet Broadcast Control Channel) is a new signalling channel that substantially improves transmission performance in GPRS transfer mode. And may be it's coming earlier than you'll expect – thanks to our new Tri-Band GSM/GPRS module MC45 for mobile communication solutions. Get ready for future technology that enables:

- Mobile computing devices
- Smart phones
- Multimedia & Internet appliances
- Accessory cards
- And much more to make your business faster and easier

MC45

The super flat module MC45 offers voice and data transmission via GPRS class 10 in EGSM900, GSM1800 and 1900. It thus ensures secure, high-speed wireless communication from anywhere around the globe.

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

MC45 – the world's flattest Tri-Band GSM/GPRS module enabling PBCCH

At only 3.5 mm, this super flat GSM/GPRS module, which runs PBCCH, opens up new integration fields for a wide spectrum of mobile computing devices, such as PDAs or notebooks. The easy integration path allows a wide range of applications. The MC45 module complies with R&TTE, GCF as well as PTCRB, and is FCC-approved.



Wireless Modules Benefits and hard facts

Original size

General features:

- Tri-Band EGSM900/
GSM1800/GSM1900
- GPRS multi-slot class 10
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
- E-OTD
- Output power:
 - 2 W for EGSM900
 - 1 W for GSM1800
 - 1 W for GSM1900
- Control via AT commands
(GSM 07.07 and 07.05)
- SIM application tool kit
- WAP compliant
- Supply voltage range
3.2 – 4.5 V
- Low power consumption
- Weight: 10 g
- Dimensions: 53 x 34 x 3.5 mm
(6307 mm³)
- Ambient temperature:
–20°C to +55°C
- Auto switch-off at +70°C

Specifications for fax:

- Group 3, class 2

Specifications for data transfer:

- GPRS class 10:
max. 85.6 kbps (downlink)
- 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 audio:

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

Interfaces:

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

Compatibility:

- AT cellular command interface

More about Wireless Modules at:
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