

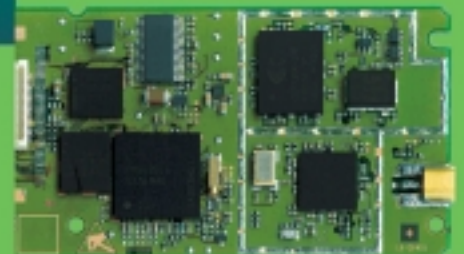


Overtake the competition with GPRS

Accelerate your automotive business with GPRS and reach top speed on the data highway: with the AC45 GPRS module from Siemens. Thanks to its innovative mounting and connecting concept, this robust super-slim module – with ultra-fast GPRS technology and developed especially for the automotive industry – can be quickly and conveniently integrated everywhere. The AC45 provides unlimited opportunities. And puts every vehicle at the peak of communication technology. Via hands-free phoning with outstanding sound quality, vehicle workstation featuring permanent access to Internet or Intranet, fax, fleet management, automatic SOS emergency call, diagnostic functions, dynamic navigation, local information services, on-board games, MP3 downloads. Any other questions? Our Application Engineering is at your service worldwide, supporting you with integration into your specific solution.

SIEMENS

Cellular Engine
AC45



Be inspired

Pre-release

Cellular Engine AC45

The new GPRS module specially designed for automotive applications

actual size



- Dual-band EGSM900 and GSM1800
- High speed data: GPRS Class 8
- Optimized for automotive applications
- Enhanced operating temperature range
- Temperature monitoring
- Enhanced hands-free operation
- Robust design
- Diagnostic functions (antenna)
- Innovative mounting & connecting concept
- Full type approval and operator approved (R&TTE and GCF)

Target applications:

- Radiophones
- Internet radios
- Navigation systems
- Emergency call systems

Product features:

- Dual-band EGSM900 and GSM1800
- GPRS multi-slot Class 8
- GPRS mobile station Class B
- Compliant to GSM phase 2/2+
- Output power:
 - Power Class 4 (2W) at EGSM900
 - Power Class 1 (1W) at GSM1800
- Control via AT commands
- SIM application tool kit
- Multiplexed RS232 interface with 3 virtual serial channels
- Power supply (separate supply of BB and RF recommended):
 - Base-band 3.3V
 - RF-PA 4.2V
 - Single supply voltage 4.2V possible
- Power consumption (typical):
 - Power down 50 μ A
 - Sleep mode (registered, DRX = 6): 3.5 mA
 - Idle mode (registered, DXR = 2): 15.0 mA
 - Speech mode 300 mA (average)
 - GPRS Class 8: <360 mA
 - Peak (GSM or GPRS): <2.5A

- Weight/Dimensions: 11g / 65 x 36 x 4.3 mm
- Ambient temperature: –25°C... +65°C according to GSM 11.10
- –29 to –25°C and +65 to +75°C restricted operation
- Temperature warning: >70°C
- High temperature protective shutdown: >75°C and <–29°C
- Measurements of module temperature possible
- Emergency shutdown

Approvals:

- R&TTE with reference equipment
- GCF approval

Audio:

- Half rate (HR)
- Full rate (FR)
- Enhanced full rate (EFR)
- Enhanced hands-free operation:
 - Echo cancellation
 - Noise reduction

SMS via GSM and GPRS:

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

Fax:

- Group 3: Class 1, Class 2

Data:

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

Interfaces:

- 40 pin board-to-board connector:
 - Power supply
 - External SIM 3V
 - RS232 bi-directional
 - Autobauding and fixed bauding up to 230.4 kbaud
 - 2 analog audio interfaces
- 50 ohm antenna connector (qualified for automotive requirements)

Compatibility:

- AT cellular command interface

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

Issued by Siemens AG
ICM Wireless Modules
Haidenauplatz 1, D-81667 Munich
Germany
Siemens Aktiengesellschaft

Subject to changes in technology and availability.
Order No.: A31001-W25-A184-X-7600
Printed in Germany
SB 06025.