

Wireless Module HC25

HSDPA ready to integrate

HSDPA 3.6 Mbit/s download speed, Tri-Band UMTS/HSDPA, Quad-Band GSM/GPRS/EDGE, RIL/NDIS/USB driver for Microsoft® Windows Mobile™ based devices, and a robust mounting and interface concept: This impressive feature set means a breakthrough for mobile devices and solutions such as PDAs, gateways, industrial handhelds, routers, entertainment devices and many more.

HSDPA (High Speed Downlink Packet Access) technology is a transmission standard based on the UMTS technology, which currently allows a download speed of up to 3.6 Mbit/s. This technology, in combination with full voice and data capability, a USB 2.0 full-speed interface, a RIL/NDIS/USB driver and connected via a rugged board-to-board connector, provides manufacturers with the opportunity to develop new devices and solutions within a very short time and at a low cost of ownership.

As a result, the HC25 enables applications to offer services like broadband internet and e-mail access, high-speed download of large files and streaming of videos or music.

In addition, the HC25 comes with full type approval. It has also been approved by major network carriers around the world, including US operators.



Tri-BAND UMTS/HSDPA



Quad-BAND GSM/GPRS/EDGE



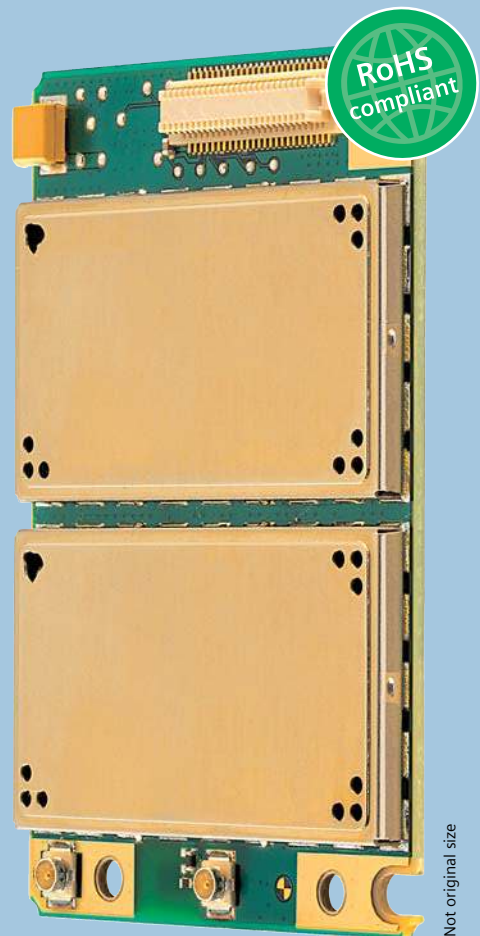
HSDPA 3.6 MBIT/S



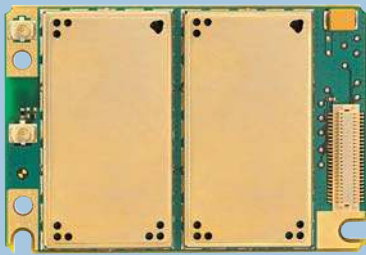
RIL/NDIS DRIVER



USB



Not original size



Original size



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General features:

- HSDPA 3.6 Mbps
- Tri-Band UMTS/HSDPA (WCDMA/FDD) 850/1900/2100 MHz
- Quad-Band GSM 850/900/1800/1900 MHz
- EDGE (E-GPRS) multi-slot class 10
- GPRS multi-slot class 10
- UMTS/HSDPA 3GPP release 5
- GSM 3GPP release 99
- Output power:
 - Class 4 (2 W) for GSM900
 - Class 3 (0.25 W) for UMTS/HSDPA
 - Class E2 (0.5 W) for EDGE900
 - Class E2 (0.4 W) for EDGE1800
 - Class 1 (1 W) for GSM1800
- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005)
- SIM Application Toolkit (release 99)
- Supply voltage range: 3.2 ... 4.2 V
Voltage switch off: 4.3 V
- Power consumption:
 - Power down 50 A
 - Average Supply Current < 970mA (HSDPA data transfer)
- Temperature range
 - Normal Operation: -20°C to +65°C
 - Restricted Operation: -30°C to +75°C
 - Switch off: +85°C
 - Storage: -40°C to +85°C
- Dimensions: 34 x 50 x 4.5 mm
- Weight: approx. 10g

Specification for HSDPA data transmission:

- HSDPA: max. 3.6 Mbps (DL), max. 384 kbps (UL)
- UE CAT [1-6], 11, 12 supported
- Compressed mode according to 3GPP TS25.212

Specification for UMTS data transmission:

- UMTS: max. 384 kbps (DL), max. 384 kbps (UL)

Specification for EDGE data transmission:

- EDGE class 10: max. 237 kbps (DL), max. 118 kbps (UL)
- Mobile station class B
- Modulation and coding scheme MCS 1-9

Specification for GPRS data transmission:

- GPRS class 10: max. 85.6 kbps (DL), max. 42.8 kbps (UL)
- Mobile station class B
- Full PBCCH support
- Coding schemes CS 1-4

Specification for CSD data transmission:

- GSM data rate 14.4 kbps, V.110
- UMTS data rate 57.6 kbps, V.120
- RLP (Non-transparent mode)

Approvals:

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

Specification for SMS:

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

Specification for fax:

- Group 3, class 1

Specification for voice:

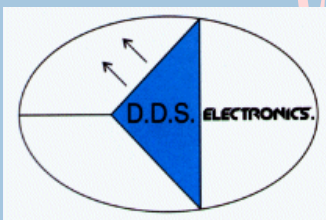
- Triple-rate codec for HR, FR and EFR
- GSM & 3GPP: Adaptive multi-rate AMR
- DTMF supported
- CEPT/ANSI supervisory tones supported
- Handset, Headset, Handsfree modes
- TTY supported

Special features:

- Improved power-saving modes
- NDIS/USB driver for Microsoft® Windows® XP
- RIL/NDIS/USB driver for devices based on Microsoft® Windows Mobile™5.0 and its successor
- Customer IMEI as variant
- Firmware update via USB

Interfaces:

- Hirose U.FL-R-SMT 50 ohm antenna connector
- Antenna pad
- Hirose 50-pin board-to-board connector
 - Power supply
 - Audio: 1 x analog
 - USB 2.0 full speed
 - UICC/SIM card interface 3 V, 1.8 V
 - Emergency-off
 - Network status



Digitally signed by
W de Vries

DN: cn=W de Vries,
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