

MTX-H25+PLUS UMTS/HSDPA Terminal

High Speed Data terminal modem PLUS Serial Port and GPS Receiver

NEW

Powered by SIEMENS Wireless Module HC25

Approved Partner

Wireless Modules

SIEMENS



HSDPA 3.6 Mbps

Triple Band
UMTS/HSDPA
850//1900/2100
Mhz

Quad Band GSM
850/900
1800/1900 MHz

EDGE class 10
GPRS class 10

USB port

RS232 serial port

Audio analog port

GPS receiver

RIL/NDIS driver

When your application needs to receive data up to 3.6 Mbps download or transmit up to 386Kbps the MTX-H25+PLUS terminal is the solution based on HSDPA technology.

The HSDPA (High Speed Downlink Packet Access) is a transmission standard based on the UMTS network which allows a download speed of up to 3.6 Mbit/s. The technology therefore enables services like broadband internet and e-mail access, high-speed download of large data files and streaming of videos or music.

The MTX-H25+PLUS is a complete terminal that encapsulates everything you need in one compact plug-and-play unit. The integration is almost not needed because has its own SIM card reader and a USB port PLUS R232 Serial port, minimizing the need for further hardware components.

The MTX-H25+PLUS is controlled via AT commands and standard interfaces such as USB 2.0 or RS232 serial port and RIL/NDIS driver.

When UMTS-HSDPA network operation is not present, the MTX-H25+PLUS can operate in EDGE class 10 max. 236,8 kbps (DL), max. 118 kbps (UL) or in GPRS class 10: max. 85.6 kbps (DL), max. 42.8 kbps (UL)

The MTX-H25+PLUS can also work in simple CSD data transmission (GSM data rate 14.4 kbps, V.110, UMTS data rate 57.6 kbps V.120) as well Short Messaging (SMS), and FAX specifications. It has also an analogue interface and capable to make a voice communication call.

Another enhanced feature MTX-H25+PLUS has is GPS receiver, NMEA protocol in third multiplex channel (MUX GSM 07.10 protocol is needed)

MTX-H25+PLUS is RoHs & WEEE compliant and it is manufactured with the ISO 9001 & ISO 14001 Quality certifications. A full list of antennas, cables and supplies accessories are available. More information www.matrix.es/mtx-terminals

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)
- Power consumption:
 - Power down 50 µA
 - Average Supply Current < 970mA (HSDPA data transfer)
- Temperature range
 - Normal Operation: -20°C to +65°C
 - Restricted Operation: -30°C to +75°C
 - Storage: -40°C to +85°C
- Dimensions. Excluding connectors: 78,1 x 66,8 x 37,2 mm
- Weight: < 190 g
- Supply voltage range: 6 ... 30 V

Interfaces:

- FME M 50 Ohm GSM-UMTS antenna connector
- SMA F GPS antenna connector
- USB 2.0 full speed interface
- RS232 9-wire modem interface serial port
- Operating status LED bi-color
- SIM card interface 3 V, 1.8 V
- Plug-in power supply and on/off interfaces
- Handset audio interface

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
- Firmware update via USB

GPS Features

- Protocol NMEA
- Modes GPS, assisted GPS (AGPS)
- Acquisition sensitivity: -143dBm
- Tracking sensitivity -156dBm
- Power supply for active antenna

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. 236,8 kbps (DL), max. 118 kbps (UL)
- Mobile station class B
- Modulation and coding écheme 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)

Specification for SMS:

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

Specification for voice:

- Audio speech codecs
- GSM: AMR, EFR, FR, HR
- 3GPP: AMR
- DTMF supported
- 6 audio modes: Approval, Router, Handset, Headset, Speakerphone and Transparent mode
- TTY support selecting a dedicated audio mode
- Gains and volumes can be controlled by AT commands
- 9 ringing melodies supported
- CEPT and ANSI supervisory tones supported

Ordering information: MTX-H25+PLUS: 199.801.087 firmware 02.050

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