MTX TERMINALS

MTX-HSPA-PH8+G Terminal

M2M applications to the future

Powered by Cinterion Wireless Module PH8

CINTERION
WIRELESS MODULES
Approved Distributor
lead-free

RoHS
Compliant

HSPA+ DL: 14.4 Mbps UL: 5.7 Mbps	When your application needs UMTS top speed, 14.4 Mbps download and 5.7 Mbps upload (ideal for video transmission), the MTX-HSPA-PH8 terminal is the solution based on HSPA+ 3.5G technology.

HSPA+
DL: 14.4 Mbps
UL: 5.7 Mbps

UMTS 800/850, AWS 1700, 1900/2100 MHz

QUAD BAND GSM EDGE

EDGE class 12 GPRS class 12

USB port RS232 port

Audio analog port

USB 2.0 high speed CDC-ACM compliant

Video call support

GPS antenna

Dedicated AT commands

When your application needs UMTS top speed, 14.4 Mbps download and 5.7 Mbps upload (ideal for video transmission), the MTX-HSPA-PH8 terminal is the solution based on HSPA+ 3.5G technology.

The HSPA+ (High Speed Packet Access) is a transmission standard based on the UMTS network which allows a download speed of up to 14.4 Mbps. The technology therefore enables services like broadband internet, e-mail access, high-speed download of large data files and the streaming of videos or music. MTX-HSPA-PH8 covers almost all UMTS frequencies allowing you to use it in world-wide UMTS network coverage. This terminal will be 4G and LTE ready when the network is ready.

The MTX-HSPA-PH8 is a complete terminal that encapsulates everything you need in one compact plug-and-play unit. The integration is almost not needed because it has its own SIM card reader and a USB port which minimizes the need for further hardware components.

The MTX-HSPA-PH8 is controlled via AT commands in their standard interfaces, USB 2.0 full speed (480Mbps) and Serial High Speed up to 920Kbps RS232 port. They can be used at the same time. GPS receiver NMEA data is present without Muxer over USB and serial interfaces.

This terminal is intended to be used with NDIS/USB driver for Microsoft® Windows XP™, Windows Vista™ and Windows 7™, also Windows Mobile and CE. Also it has a USB CDC-ACM compliant mode to support Linux and Android for example.

When the UMTS-HSPA network operation is not present, the MTX-HSDPA-EU3 can operate in EDGE class 12 max. 237 kbps (DL), max. 237 kbps (UL) or in GPRS class 12: max. 85.6 kbps (DL), max. 85.6 kbps (UL). The MTX-HSPA-PH8 can also work in simple CSD data transmission (GSM data rate 14.4 kpbs, V.110, UMTS data rate 57.6 kbps V.120) as well Short Messaging (SMS), and FAX specifications. It also has an analogue interface and is capable to make voice communication calls.

MTX-HSPA-PH8 is RoHs & WEEE compliant and it is manufactured with the ISO 9001 & ISO 14001 Quality certifications.

A full list of antennas, cables, supplies and accessories are available.

General features:
- HSPA 14.4 Mbps
- Five Band UMTS (WCDMA/FDD):
800/850, AWS 1700, 1900/2100 MHz
- Quad-Band GSM 850/900/1800/1900 MHz
- EDGE (E-GPRS) multi-slot class 12
- GPRS multi-slot class 12
- UMTS / HSPA+, 3GPP release 6 / 7
GSM / GPRS / EDGE, 3GPP release 99 /
- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005)
- Power consumption:
    - Average Supply Current < 970mA (HSDPA data transfer)
- Temperature range
    - Normal Operation: -20°C to +85°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: 9 … 30 V

GPS features
- E911 A-GPS functionality via Control Plane
- Standalone GPS, SUPL prepared
- GPS dedicated AT command
- Protocol: NMEA-0183 V2.3
- GPS active antenna supply: 3.3 V
- Tracking Sensitivity: better than -158 dBm
- No GPS blanking

Interfaces:
- FME M UMTS antenna connector
- SMA F GPS antenna connector
- USB 2.0 full speed interface
- Complete 9-pin RS232 @920Kbps 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
- Firmware update via USB and ASC0

Specification for HSPA data transmission:
- HSDPA/HSUPA rates:
    - DL: max. 14.4 Mbps
    - UL: max. 5.76 Mbps

Specification for UMTS data transmission:
- UMTS: max. 384 kbps (DL), max. 384 kbps (UL)

Specification for EDGE data transmission:
- EDGE class 12:
    - DL: max. 237 kpbs
    - UL: max. 237 kbps
- Mobile station class B
- Modulation and coding scheme MCS 1-9

Specification for GPRS data transmission:
- GPRS class 12:
    - DL: max. 85.6 kbps
    - UL: max. 85.6 kbps
- Mobile station class B
- Full PBCCH support
- Coding schemes CS 1-4

Specification for CSD data transmission:
- GSM data rate 14.4 kpbs, V.110
- UMTS data rate 57.6 kpbs 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:
- AMR, EFR, FR HR Codecs
- DTMF supported
- CEPT/ANSI supervisory tones supported
- Handset, Headset, Hands-free modes
- TTY supported

Ordering information: MTX-HSDPA-PH8+G   199801098

www.mtx-terminals.com
www.matrix.es
ftp.matrixelectronica.eu/MTX-Terminals
mtxsupport@matrix.es

Matrix Madrid	Matrix Barcelona	Matrix Bilbao
Matrix Electronica S.L.	Matrix Electronica S.L.	Matrix Electronica S.L.
C/ Alejandro Sánchez, 109 28019 - Madrid	Pol. Ind. Can Rosés Nave 109, Of. 6-9 08191 – Rubí - Barcelona	Pol. Montorretas C/ Aliendalde, 11 - Oficina 2G 48200 Durango Vizcaya
España Tel. +34 91 5602737 Fax. +34 91 5652865	España Tel. +34 93 5882137 Fax. +34 93 5886172	España Tel. +34 902 198146 Fax. +34 91 5652865
matrix@matrix.es	aps@matrix.es	bilbao@matrix.es