

# MTX-HSPA-PH8+G modem

*M2M UMTS/HSPA modem + GPS receiver*



Multi OS  
Support



Five Band  
UMTS (WCDMA)  
HSPA+



RS232 port



USB 2.0  
High Speed Port



Audio handset  
connector



GPS



Extended  
Temperature  
Range



Automatic restart  
after shutdown



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

The MTX-HSPA-PH8+G is a complete terminal that encapsulates everything you need in one compact plug-and-play unit. Integration is almost unnecessary because it has its own SIM card reader and a USB port which minimizes the need for further hardware components.

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

This modem is intended for use with NDIS/USB drivers for Microsoft® Windows XP™, Windows Vista™ and Windows 7™, also Windows Mobile and CE. It also features a USB CDC-ACM compliant mode to support for example Linux or Android.

The MTX-HSPA-PH8+G is RoHS & WEEE compliant and it is manufactured with the ISO 9001 & ISO 14001 Quality certifications.

## General features

- HSPA 14.4 Mbps
- Five-Band GSM 800/850/AWS1700/1900/2100MHz
- Quad-Band GSM 850/900/1800/1900MHz
- EDGE multi-slot class 12
- UMTS/HSPA+, 3GPP release 6/7, GSM/GPRS/EDGE, 3GPP release 99
- Control via AT commands (Hayes, TS 27.007, TS 27.005)
- TCP/IP stack access via AT commands
- Supply voltage range:
  - Maximum: 6.5 to 40VDC
  - Recommended: 7 to 35VDC
- Operating temperature range: -20°C to +85°C
- Dimensions, excluding connectors: 78.1 x 66.8 x 37.2mm
- Weight: <190 g
- IP30 enclosure
- Powered by Cinterion PHS8 module

## Interfaces

- GSM FME M antenna connector
- USB 2.0 High Speed port up to 480Mbps
- SIM card interface 1.8V/3V
- DB9 female connector: complete 8-wire RS232 modem interface
- 2 status LEDs (GSM status and user programmable)
- Handset audio interface
- Plug-in RJ12 power supply connector

## Special features

- Improves power-saving modes
- Firmware update via USB and RS232

## Ordering information

MTX-HSPA-PH8+G: 199801098

## Specification

- **HSPA**
  - DL speed: max 14.4Mbps
  - UL speed: max 5.76Mbps
- **UMTS**
  - DL speed: max 384kbps
  - UL speed: max 384kbps
- **EDGE**
  - EDGE class 12
  - DL speed: max 237kbps
  - UL speed: max 237kbps
  - Mobile station class B
  - Modulation and coding scheme MCS 1-9
- **GPRS**
  - GPRS class 12
  - DL speed: max 85.6kbps
  - UL speed: max 85.6kbps
  - Mobile station class B
  - Full PBCCH support
  - Coding schemes CS 1-4
- **CSD data transmission**
  - GSM data rate 14.4kbps V.110
  - UMTS data rate 57.6kbps V.120
  - RLP (Non-transparent mode)
- **SMS**
  - Point-to-point MO and MT
  - SMS cell broadcast
  - Text and PDU mode
- **Voice**
  - AMR, EFR, FR HR codecs
  - DTMF supported
  - CEPT/ANSI supervisory tones supported
  - Handset, Headset, Hands-free modes
  - TTY supported

## 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: 3.3V
- Tracking sensitivity: better than -158dBm
- No GPS blanking