

GSM AUTOMATIC

PH8 HSPA+ EMBEDDED TERMINAL

The PH8 HSPA+ Embedded Terminal is a compact GSM/UMTS modem used for the transfer of data, SMSes and faxes in GSM networks. The PH8 HSPA+ Embedded Terminal provides the HSPA+ standard and enables high data transmission rate up to 14.4/5.76 Mbps. With Penta-Band UMTS and Quad-Band GSM capability, the PH8 HSPA+ Embedded Terminal can be used in all existing GSM networks in America, Europe and Asia, guaranteeing seamless communication.

Benefits and features:

- Penta-band UMTS 800/850/900/1900/2100 MHz
- Quad-band GSM 850/900/1800/1900 MHz
- HSPA+ 14.4/5.76 Mbps, UMTS 384/384 kbps, EDGE 237/237 kbps, GPRS 85,6/85,6 kbps
- GPS tracking sensitivity -158 dBm
- Interfaces - USB 2.0, RS232, Power connector, SIM card reader
- Automatic start after Power On, Status LED
- 2x Cellular Antenna, 1x GPS Antenna



Internet, Metering



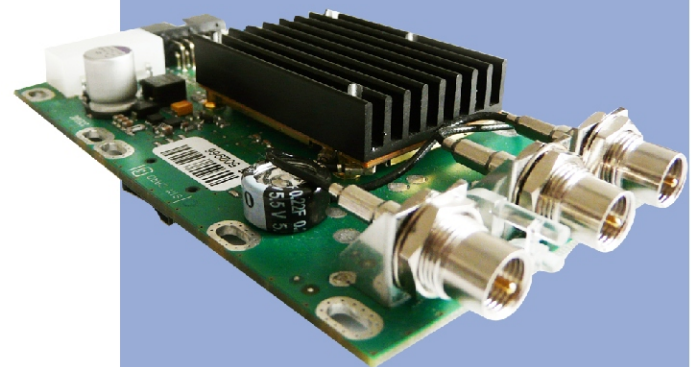
Security systems, Remote controlling



POS terminals, Vending machines



Traffic control, Fleet management



HSPA+

UMTS

GPS

RS232

USB 2.0

EDGE 12

GPRS 12

GSM

General Features

- Five Band UMTS (WCDMA/FDD):
PH8: 800/850, AWS1700, 1900, 2100 MHz
PH8-P: 800/850, 900, 1900, 2100 MHz
- Quad-Band GSM: 850, 900, 1800, 1900 MHz
- UMTS / HSPA+, 3GPP release 6 / 7
- GSM / GPRS / EDGE, 3GPP release 99 / 4
- SIM Application Toolkit, release 99
- SAIC / RX Diversity Type 3i
- Control via AT commands
 (Hayes, 3GPP TS 27.007 and 27.005)
- Dimension: 50 x 33.9 x 3.1 mm, single sided
- Operational Temperature range:
 -40°C to +85°C

GPS Features

- Standalone GPS
- GPS dedicated AT commands
- A/GPS support: standalone, XTRA[®], CP E911
- Protocol: NMEA-0183 V2.3
- Option for temporary NMEA stream buffering
- GPS active antenna supply: 3V
- Tracking Sensitivity: better than -158 dBm
- Prepared for GLONASS

Specifications

- HSDPA/HSUPA data rates:
 DL: 7.2 / 14.4 Mbps, UL: 2.0 / 5.76 Mbps
 Concurrent data rate:
 DL: 7.2 Mbps, UL: 5.76 Mbps
- UMTS data rates:
 DL: max. 384 kbps, UL: max. 384 kbps
- EDGE class 12:
 DL: max. 237 kbps, UL: max. 237 kbps
- GPRS class 12:
 DL: max. 85.6 kbps, UL: max. 85.6 kbps
- CSD data transmission 14.4 kbps, V.110
- SMS text and PDU mode
- TTY supported

Approvals

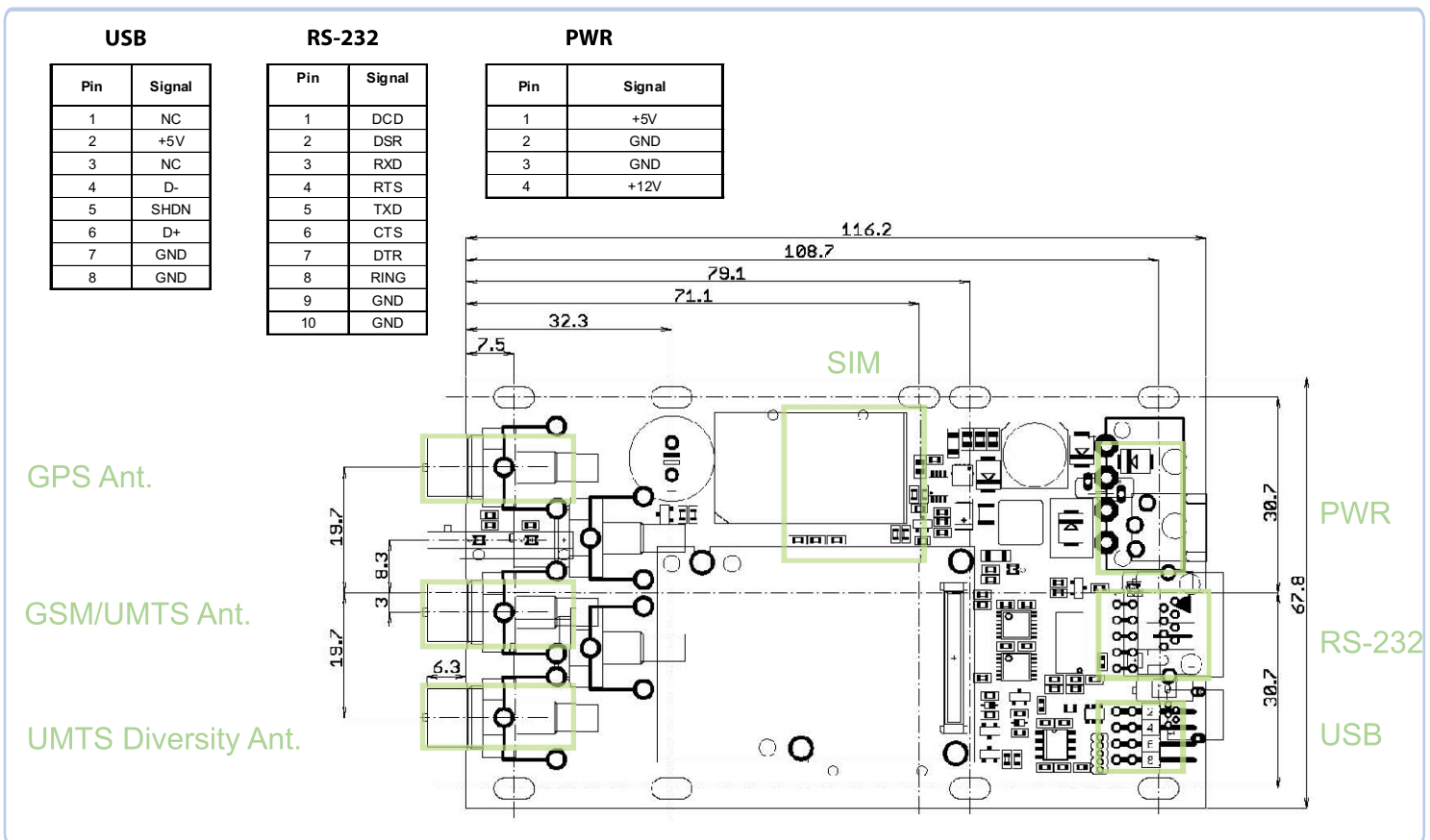
- R&TTE, FCC, GCF, PTCRB, UL, IC, CE
- AT&T, Telstra and other local approvals
 and provider certifications

Interfaces

- RS-232 MLW-10 RPG - 1 2,54 mm
- USB 2.0 KL - 2X40 RG AR
- 2 x antenna connectors for GSM/UMTS FME(m)
- 1 x antenna connector for GPS FME(m)
- Power supply PAWR 2470 - 04 5/12VDC
- UICC and U/SIM card interface 3V, 1.8 V
- Network status

Special Features

- NDIS/USB/MUX driver for Microsoft[®]
 Windows XP[™], Windows Vista[™] and Windows 7[™]
- RIL/NDIS/USB/MUX driver for devices based on
 Microsoft[®] Windows Embedded Handheld[™]
- USB/MUX driver for Microsoft[®] Windows Embedded
 Compact[™]
- RIL driver for devices based on Android OS[™]
- Internet Services via TCP/IP Stack
- Customer IMEI/Netlock as variant
- Firmware update via USB and serial Interface
- USB supports multiple composite modes and a
 CDC-ACM compliant mode for Linux



Part Numbering

GM-PH8-EMB-SET PH8 HSPA+ EMBEDDED TERMINAL

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