

HCP65-G

HY-LINE[®]
COMMUNICATION PRODUCTS

Quad band GSM Modem with GPS Receiver

The HCP65-G Terminal is a compact Java programmable quadband GSM modem for data, voice, SMS and fax transmission with an integrated 12-channel GPS receiver. It supports the GPRS class 12 standard and therefore permits a far higher data rate. With integrated TCP/IP stack this modem enables GSM/GPRS connectivity of the highest standard.

Standard interfaces as well as an integrated SIM card reader significantly shorten installation time. The quadband capability enables the worldwide use. To fulfil the demands for use in rugged environment, the device is mounted in a robust metal housing.

The functionality of the device corresponds to the features of the SIEMENS TC65 module, supplement by SIM card reader, RS232 interface, analogue handset interface, general purpose optoelectronic coupled input and outputs and a wider supply voltage range with battery backup. The plug-in connections are standardised and suitable for use under vibration.

The GPS functionality based on the NAVMAN Jupiter20 receiver with a SiRFII LP chipset with a horizontal accuracy better than 2.1 m (CEP) and TTFF in 8 seconds (hot start).

You are free to program and running your own Java application. After programming there is no need for additional start up procedures, simply switch on.



General features:

- Supply voltage range: 5-32VDC
- robust metal housing
- Dimensions 105 x 70 x 30 mm
- Weight: 250 g (without backup battery)
- Ambient temperature range: -25 to +65 °C
- Automatic switch off at +85°C
- Protection class IP40
- Optional: backup- battery
- separate hardware watchdog
- E1, CE certificate
- 3 opto insulated input
- 3 relay output
- Analogue audio interface, echo cancellation
- serial RS232 interface CMOS 3.3V
- 1PPS output
- 2 free programmable LED's (e.g. for GPS signal quality)
- analogue Audio-Interface

GSM features:

- Quad band 850/900/1800/1900 MHz
- GSM release 99
- GPRS Class 12
- Output power: Class 4 (2W)
- Output power: Class 1 (1W)
- SIM-Card reader for 3.3V or 1.8V cards
- FAKRA antenna connector
- Java CLDC 1.1, J2ME
- 400Kbyte RAM, 1.7 MB Flash
- TCP/IP stack via AT commands
- Support of TCP, UDP, HTTP, FTP, SMTP, POP3, HTTPS, PKI
- Application SW update over-the-air

GPS features:

- 12 channels all in view, L1, C/A
- Upgradeable to high sensitivity
- Upgradeable to Dead Reckoning
- Upgradeable firmware
- horizontal accuracy better than 2.1 m
- WAAS/EGNOS compatible
- Xtrac and DR options
- active Antenna (FME) powered through receiver 3..5V/100mA
- NMEA-0183/SiRF binary messages
- SiRF binary raw data
- WGS-84 date and 5 user defined
- FAKRA antenna connector