Terminals
GPRS Connectivity in a Box

BGS2 Terminal

- Quad-Band 2G
- Compact Size
- GPRS Class 10
- Flexible Mounting
- Large Input Voltage Range
- Industrial Interfaces
- TCP/IP
- Low Power Consumption

Cinterion BGS2 Terminals
Plug-and-Play with Most Flexible Mounting

The ultra-compact BGS2 Terminal incorporates the latest generation of powerful 2G wireless modules featuring a Quad-Band GSM/GPRS baseband, TCP/IP connectivity based on GPRS class 10 data transmission and outstanding low power consumption.

Ideal for first time M2M implementers and small scale deployments, the BGS2 Terminal offers reliable, cost-effective, out-of-the-box M2M communications for a variety of industrial applications such as metering, security, transportation, remote monitoring and control and many more.

The plug-and-play design includes a robust plastic housing with unparalleled mounting options, a range of common industrial interfaces such as RS-232 and RS-485 as well as an integrated SIM cardholder to enable easy deployment. Quad-Band support ensures global coverage for an all-in-one solution with data communications plus SMS and fax capabilities.

Like all Cinterion products, the BGS2 Terminal comes with full type approval (FTA) and is certified by the largest carriers worldwide.

BGS2 Terminal

General Features
- GSM Quad-Band:850/900/1800/1900 MHz
- GPRS multi-slot class 10
- Compliant to GSM phase 2/2+3GPP Release 99
- Output power:
  - Class 4 (2W) for GSM850
  - Class 4 (2W) for GSM900
  - Class 1 (1W) for GSM1800
  - Class 1 (1W) for GSM1900
- SIM Application Toolkit Rel.99
- Control via AT commands (Hayes, 3GPP TS 27.007 and 27.005)
- TCP/IP stack access via AT commands
- Internet Services: FTP, ICMP, DNS, TCP server & client, UDP client, HTTP, SMTP, POP3, Transparent Mode
- Supply voltage range: 8 - 30 V
- Dimension: 80 x 55 x 23 mm (excluding connectors)
- Operation Temperature Ranges:
  - Normal operation: -30 °C to +85 °C
  - Restricted operation: -40 °C to +90 °C
- Weight 65 g
- WEEE
- RoHS and EuP compliant

Special Features
- Hardware watchdog
- Driver for Microsoft® Windows 7™, Windows XP™ and Windows Vista™
- Firmware update via serial interface
- Real time clock with alarm functionality
- flexible mounting concept
- Cable fixations

Specifications
- GPRS class 10: DL: max. 85.6 kbps, UL: max. 42.8 kbps
- Mobile Station class B
- CSD data transmission
- USSD support
- SMS text and PDU mode, cell broadcast
- Fax Group 3, class 1&2

Interfaces
- Antenna Connector SMA (female)
- Mini-SIM card reader, 1.8 V and 3.0 V
- Plug-in power supply connector (6-pole Western jack @BGS2T RS232)
- V.24 / V.28 RS-232 interface (D-sub 9-pole female socket @BGS2T RS232)
- 6 pin header with RS-485 interface, power and ignition/reset (@BGS2T RS485)
- Operating status LED's

Approvals
- CE, R&TTE, GCF, FCC, PTCRB, IC
- Local approvals and network operator certifications

For detailed specification please see hardware interface description.

Plug-and-Play with Most Flexible Mounting

Plug & Play
BGS2 Terminal is a simple and reliable plug-and-play communication device that allows M2M entrants to quickly connect their industrial applications using wireless technology with low integration and approval efforts, saving significant time to market.

Most Flexible Mounting
Sharing the footprint of a credit card, the slim terminal fits in almost every M2M application. To ensure a simple, reliable and efficient integration the ultra-compact design incorporates a highly flexible mounting concept:

- DIN rail mounting
- C-rail mounting
- Screw fixing
- The use of cable ties

Low Power Consumption
The new M2M Terminal equipped with Cinterion's BGS2 module is based on the latest chipset generation, offering best-in-class power efficiency to extend operating time while saving battery power.

Industrial Interfaces
The robust BGS2 Terminal comes in two versions offering vertical-specific industrial interfaces, such as RS-485 used in automatic meter reading or RS-232 for general purpose applications.

Cinterion Global Support
Local engineers, a competent helpdesk, a dedicated team of R&D specialists and an advanced development center are the hallmarks of our leading support offer.

The Cinterion support includes:
- Personal design-in consulting for hardware and software
- Extensive RF test capabilities
- GCF/PTCRB conform pretests to validate approval readiness
- Guidelines for local approvals and acceptances
- Regular training workshops

Cinterion
St-Martin-Str. 60
81541 Munich
Germany

Further information about our products and services is also accessible via www.cinterion.com