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TERMINALS

Cinterion® BGS2 Terminal

Plug-and-Play with Most Flexible Mounting



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BGS2 Terminal



Quad-Band 2G



GPRS Class 10



Large Input Voltage Range



TCP / IP



Compact Size



Flexible Mounting



Industrial Interfaces



Low Power Consumption

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.

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.

Thales M2M Support includes:

- Personal design-in consulting for hardware and software
- Extensive RF test capabilities
- GCF/PTCRB conform pretests to validate approval readiness
- Regular training workshops



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.

Cinterion® BGS2 Terminal Features

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 × 55 × 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

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

Special Features

- Hardware watchdog
- Firmware update via serial interface
- Real time clock with alarm functionality
- Flexible mounting concept
- Cable fixations

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

Drivers

- Driver for Microsoft® Windows 7™, Windows XP™ and Windows Vista™

Approvals

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

Thales in IoT: Driving digital transformation with the power of the IoT

Thales delivers innovative IoT technology that simplifies and speeds enterprise digital transformation. For more than 20 years, our customers – in a wide range of industries - trust our IoT solutions to seamlessly connect and secure their IoT devices, maximise field insights, and accelerate their global business success.

Thales solutions:

- **Connect** assets to wireless networks and cloud platforms
- **Manage** the long lifecycle of IoT solutions
- **Secure** devices and their data
- **Analyse** realtime data transforming it into business intelligence that improves decision making

Our 360° approach provides the essential building blocks needed to simplify design, streamline development and accelerate time-to-market.

For more information, please visit www.thalesgroup.com/IoT or follow [@ThalesIoT](https://twitter.com/ThalesIoT) on Twitter

