

BGS2 miniPCle



eCall
prepared



Advanced
Temperature
Management



GPRS
Class 10



Quad-Band



HQ Voice
Support
VDA 2a



Antenna
Diagnostics



Voice
Prompts



RLS
Monitoring



SSL
Encryption



Generic Flash
Access



2G/GPRS

Cinterion® BGS2 miniPCle Wireless Module

The Wireless Connectivity Solution for Remote Monitoring
and Low Bandwidth M2M Applications

Cinterion® BGS2 miniPCle Wireless Module Solution for x86-based Remote Monitoring Applications

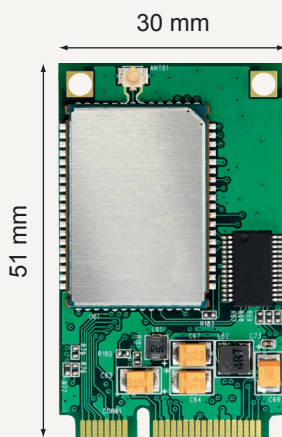
The Cinterion BGS2 miniPCle is an easy to integrate data modem card designed to add cost efficient wireless connectivity to remote monitoring applications and low bandwidth industrial electronics solutions. Leveraging the Cinterion BGS2-W module and the standard PCI Express® Mini Card form factor (miniPCle), the solution provides global quad-band 2G/GPRS data communications enabling Internet access and cloud-based services for intelligent systems with x86-architecture.

It is ideal for remote monitoring solutions that transmit status notifications, inventory information, alerts and log files between equipment in the field and backend systems.

With an extended temperature range from -40 °C up to 85 °C, the Cinterion BGS2 miniPCle is reliable in extreme environments for use outdoors or inside at sites that lack cooling and heating systems. It provides simple plug-in integration via the standardized 52-pin PCIe® system connector and works with built-in Windows® and Linux modem drivers easing integration work for intelligent system vendors.

With its straightforward installation and reliable, global 2G connectivity, the BGS2 miniPCle enables cost optimized, low bandwidth cellular connectivity for any PC-based industrial M2M application.

Solution for x86-based Remote Monitoring Applications



M2M miniPCle Offers Extended Temperature Range and Advanced Temperature Management

Compared to consumer electronic products, industrial and commercial M2M applications demand more durable components, which are designed to work 24x7 under extreme temperature conditions. The Cinterion M2M miniPCle functions reliably in temperatures ranging from -40 °C up to +85 °C for use outdoors in snow and ice, or inside industrial facilities and equipment that lack heating and cooling systems. With an Advanced Temperature Management feature, the BGS2 module will react under extreme thermal conditions and automatically adapt GPRS performance to avoid overheating.

Convenient miniPCle System Connector

The miniPCle form factor provides flexible integration of cellular modem functionality for M2M applications based on an x86-processor architecture. With the standardized 52-pin interface, the miniPCle card just needs a USB and SIM interface as well as power supply and control pins for full operation.

Soldered Machine Identification Modules – MIMs – Provide Increased Longevity

Gemalto's next generation MIMs are ruggedized for industrial M2M applications and can be soldered directly on the circuit board, extending the product's life with highest reliability even in harsh environments. The Cinterion BGS2 miniPCle can be customized with soldered MIMTM for M2M applications with specific needs and ordered as a product variant upon request.

Gemalto 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 miniPCle Features

GENERAL FEATURES

- > GSM Quad-Band: 850 / 900 / 1800 / 1900 MHz
- > 3GPP release 99
- > GPRS multi-slot Class 10
- > Compliant to GSM phase 2/2+
- > Output power:
 - > Class 4 (2W) for GSM850 / EGSM900
 - > Class 1 (1W) for GSM1800 / GSM1900
- > SIM Application Toolkit Class 3, letter Class B and C, Release 99
- > Control via AT commands (Hayes, 3GPP TS 27.007 and 27.005)
- > Supply voltage range: 3.0 to 3.6 V
- > Dimensions: 51 × 30 × 4.8 mm (full mini card size)
- > Operating temperature: -40 °C to +85 °C
- > Weight: 7.6 g
- > RoHS and EuP compliant

SPECIFICATIONS

- > GPRS Class 10, Mobile Station Class B
DL: max. 85.6 kbps, UL: max. 42.8 kbps
- > SMS text and PDU mode, cell broadcast
Fax Group 3, Class 1 and Class 2

SPECIAL FEATURES

- > Compatible with modem driver of Microsoft® Windows 7™, Windows Vista™, Windows XP™
- > Compatible with USB and modem driver of Linux kernel, e.g. Wind River Linux

INTERFACES (LGA PADS)

- > PCI Express® Mini Card system connector (52 pin)
 - > Supply voltage 3.3 V
 - > USB 2.0 full speed
 - > UICC/SIM card interface 1.8 V / 3.0 V
 - > Status LED (configurable GPIO)
 - > Reset
- > Antenna connector: U.FL 50 Ω

DRIVERS

- > USB driver for Microsoft® Windows 7™, Windows Vista™, Windows XP™

APPROVALS

- > R&TTE, GCF, FCC, PTCRB, IC (BGS2-W module full type approved)
- > CE, UL

For more information, please visit

m2m.gemalto.com, www.facebook.com/gemalto, or Follow @gemaltom2m on twitter.

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