

# Cinterion<sup>®</sup> BGS5

## Release Notes

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# 1 Introduction

This Release Note refers to  
Cinterion® BGS5 01.100

BGS5 01.100 comes with JRC (Java Maintenance Application) installed when shipped from factory or when updated to the latest firmware. Required for proper operation, the JRC should not be changed.

## 1.1 Related Documents

- [1] BGS5 AT Command Set, v01.100
- [2] BGS5 Hardware Interface Description, v01.100
- [3] Hardware Migration Guide: Differences between BGS2 Rel1+2, EHSx and BGS5, v01
- [4] DSB75 Support Board Hardware Interface Description, v014
- [5] Multi-Adapter R1 User Guide, v03
- [6] Getting Started with BGS5, v01
- [7] BGS5 Java User's Guide, v01
- [8] Multiplex Driver Installation Guide, v17
- [9] Multiplex Driver Developer's Guide, v19
- [10] Application Note 16: Updating EHSx/BGS5 Firmware, v01
- [11] Application Note 17: Firmware Update over the Air, v01
- [12] Application Note 39: USB Interface Description, v01
- [13] Application Note 26: Power Supply for Wireless Applications, v05
- [14] Application Note 48: SMT Module Integration, v01

To visit the Gemalto M2M Website you can use the following link:

<http://m2m.gemalto.com/>

## 2 New and Improved Features

Feature	Brief description
Call waiting	Call waiting functionality has been improved. If a data call comes in during an active voice call connection, the incoming data call will be released automatically.
ATD, DTMF	The dial command ATD does now support DTMF characters A, B, C.
AT^SSPI	Reading via the I2C interface is now working properly and does now complete successfully.
SMTP service	The SMTP client service has been improved.
Java	Writing a large amount (> 1000) of files to different directories in the flash file system is now working properly.
AT^SSPI	The AT^SSPI functionality has been improved.
ASC0/ASC1	The serial interfaces ASC0 and ASC1 can now be used at the same time.
Starter Kit B80	The BGS5 module may now be used with the Starter Kit B80 standalone. It is possible, although not required anymore, to mount the Starter Kit B80 on the DSBmini.

### 3 Known Issues

Feature	Brief description
General	Please note that some of the known issues mentioned in previous release notes have been found out to be in fact no defects. These issues are therefore no longer mentioned.
AT+CLCK, AT+CPWD for "PS" lock	"PS" lock is currently not supported and cannot be configured with AT+CPWD and AT+CLCK.
AT+CPWD	It is not possible to change the password for the Supplementary Service "Call Barring" with AT+CPWD.
AT^SIND	The jamming indication URC will take up to 1 minute before being sent.
OTAP (Over-The-Air-Provisioning) for Java applications	Take care that there is enough free memory on the FFS for storing your Java userware. Currently, there are no warning and error result messages if OTAP is launched although the FFS has not enough memory.
USB data transfer	If transferring data via USB interface with a data package size exactly equal in length to the EP (End Point) buffer size, some USB host drivers will not respond to this with a zero length package to indicate that the data transmission is finished. The module will then treat the transfer as not finished and continue to wait for an appropriate response.
AT^SFSA	<p>The underline character ("_") is not displayed consistently by the flash file system (FFS) explorer and in the folder list returned by the AT^SFSA command.</p> <p>If using the AT^SFSA sub-command "mkdir" to create a directory containing the special character "%", an inappropriate error message is returned (^SFSA: 2).</p>
AT^SICS	Connection profile settings configured with AT^SICS are not permanently cleared, if using the <conParmTag> parameter "none". If creating a new connection profile with the same <conProfileId> as a previous profile, the previously configured settings become available again.

Feature	Brief description
AT^SNMON	<p>The response to the command AT^SNMON="INS",2,2 may be erroneous without an inserted SIM card or if the SIM card was removed during operation.</p> <p>Workaround: If a network scan is required in such a case, it is possible to deregister from the network first by using the command AT+COPS=2, before starting the network scan.</p> <p>Also, in response to the command AT^SNMON="INS",2, some of the resulting URCs may be duplicated.</p>
AT^SSPI	<p>Repeatedly reading 2048 bytes from an I<sup>2</sup>C connection will unexpectedly restart the module.</p> <p>Workaround: It is recommended that the maximum data package length should not exceed 64 bytes. Larger data packages should be split into packages of smaller or equal size, before being transferred by AT command or via API from Java MIDlets. This recommendation is valid for both 100 kbps and 400 kbps data transfer rates.</p>
Call waiting	<p>If a data call comes in during an active voice call connection, the call waiting URC "+CCWA..." is not correctly signaled.</p>
GPIO assignment	<p>The pad assignments specified in [2] and [3] for the signal lines GPIO16 and GPIO17 as well as for GPIO18 and GPIO19 are inverted.</p> <p>The correct pad assignments would be:</p> <ul style="list-style-type: none"> <li>• GPIO16 assigned to pad 29</li> <li>• GPIO17 assigned to pad 30</li> <li>• GPIO18 assigned to pad 32</li> <li>• GPIO19 assigned to pad 31</li> </ul>



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