



iID module IT-G500 BML (right side)

RFID module for CASIO IT-G500 handheld devices

microsensys integrates the proven iID[®] contactless RFID reader modules to CASIO's IT-G500 handheld. iID[®] module IT-G500 BML is designed for combined UHF RFID applications and HF LEGIC[™] system based applications. It supports a wide range of UHF transponders as well as HF transponders including LEGIC[™] Prime and advant. The device is optimized for low power handheld applications, combined with a smart form factor.

Product Short Description & available Versions:

RFID module UHF/LEGIC IT-G500-BML RFID Read/Write Unit, basic type, incl. iID Driver Engine System: iID-4000/SM-4500, ISO 18000-6c, EPC Gen2 and LEGIC Prime/Advant incl. ISO 15693, ISO 14443 customized

RFID Interface: UHF(868MHz) circ.pol. MP2525, HF(13.56MHz) W4650, inclusive microsensys back side case type 500-2.0

Product code: 47.94.500.00

Performance description

With this new **iID[®] RFID module IT-G500 BML** microsensys continues the wide range of RFID modules for CASIO handheld devices. Some points of interest for this device are:

- UHF RFID communication, compliant with ISO 18000-6c, EPC Gen2, UHF custom commands
- HF and LEGIC™ Prime and advant operation, compliant with ISO 15693, ISO 14443, SONY Felica
- Smart, lightweight and robust design
- Easy mounting and startup
- Low power operation

This reader is able to work together with the actual range of CASIO IT-G500 models supporting WLAN, HSPA and UMTS for data communication. Microsensys additionally offers iID[®] module IT-G500 BM, which supports UHF(ISO18000-6c) applications or iID[®] module IT-G500 BL for HF LEGIC™ applications.

Getting started

Before usage of your RFID reader you have to remove the CASIO port protector from the device back side and mount the reader according to the mounting instruction included in the reader package.

The reader has to be fixed using four screws at the IT-G500's device back side. Do not tighten the screws excessively, otherwise the screws and the module might be damaged.



Software to be installed

Following installation of RFID iID[®] 3000 driver engine is described within the installation instruction of your driver CD-ROM, additionally you may download drivers, demo application, documents and sample code from: <http://download.microsensus.de/>

For usage of iID[®] module IT-G500 BL please copy and run the following configuration and driver components on your IT-G500 device:

IT-G500 PortInit tool: http://download.microsensus.de/Additional%20Content/ITG500_PortInit.CAB

iID[®] 3000 PRO driver engine:

[http://download.microsensus.de/CDContent/Install/RFIDDriver/Windows/iID3000PRO/Windows_Mobile_6_Standard_SDK_\(ARMV4I\)/Setup_iID3000_PRO_driver_engine_Windows_Mobile_6_Standard_SDK_\(ARMV4I\).CAB](http://download.microsensus.de/CDContent/Install/RFIDDriver/Windows/iID3000PRO/Windows_Mobile_6_Standard_SDK_(ARMV4I)/Setup_iID3000_PRO_driver_engine_Windows_Mobile_6_Standard_SDK_(ARMV4I).CAB)

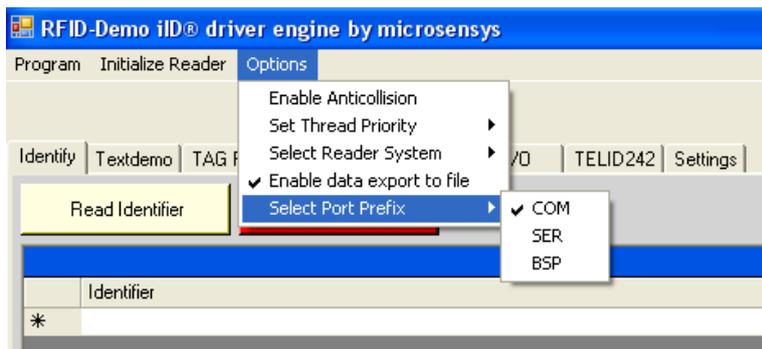
iID[®] DEMOsoft:

[http://download.microsensus.de/CDContent/Install/iID[®] DEMOsoft/Windows/Mobile/ RFID-Demo_iID_driver_engine.CAB](http://download.microsensus.de/CDContent/Install/iID%20DEMOsoft/Windows/Mobile/RFID-Demo_iID_driver_engine.CAB)

CASIO EEIC patch 1.06:

<http://download.microsensus.de/Additional%20Content/EEICDriverITG500WM.106.CAB>

or <http://download.microsensus.de/Additional%20Content/EEICDriverITG500CE.106.CAB>



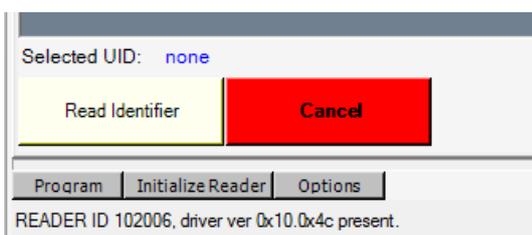
After successful installation of ITG500_PortInit, iID[®] driver engine, iID[®] demosoftware and the EEIC driver IT-G500 will perform a restart to initialize the interface. Installation is finished after device reset.

Please run iID[®] DEMOsoft to check the correct installation of iID[®] module IT-G500 BM.

On first start the device connection parameters have to be configured. iID[®] module IT-G500 BM is connected to device port COM1. Further settings in "initialize reader" dialog are as follows:

- Port type: Standard serial
- System: UHF (868MHz)
- Protocol: iID interface protocol V4

After accepting the reader settings your reader module's ID number should be displayed in status bar as shown below.



Mode of operation

iID[®] RFID module IT-G500 BML is designed for usage together with CASIO's handheld device IT-G500. The module is suitable for combined UHF and LEGIC applications and is software driven by the driver based on microsensys DEMOsoft application.

The power supply and data communication is controlled by the IT-G500 extension interface. There are no functional components on the module. Within iID[®] DEMOsoft application a transponder can be easily found with the Identify function. The unique identification number will be displayed in a list counting the reading times.

To read data from and write data in the internal memory of your transponder you can use the Textdemo operation. The different blocks and fields of the transponders memory can be selected.

Further information about own application programming based on iID[®] driver engine can be found here: <http://download.microsensys.de/CDContent/Developer%20and%20samples/iID%c2%ae%20driver%20engine/>

Product contents:

1 x iID[®]MODULE IT-G500 BML, mounting screws

Complementary microsensys documents

Technical Datasheets:	IT-G500 BML module xx.pdf
Product Guide RFID Reader:	(coming soon)
Product or System Documentation:	(coming soon)

Contact/Copyright

Micro-Sensys GmbH • In der Hochstedter Ecke 2 • 99098 Erfurt • Germany
phone: +49 (0) 3 61 5 98 74-0 fax: +49 (0) 3 61 5 98 74-17
e-mail: info@microsensys.de web: www.microsensys.de

Any reproduction of this short manual in whole or in part, the storage in electronic media and the translation into foreign languages without the written permission of microsensys GmbH is forbidden.

© 2016 microsensys • all rights reserved