**IT-G500 BML UHF/LEGIC module**

868 MHz / 13.56 MHz RFID unit for CASIO IT-G500

microsensys integrates the proven iID® contactless RFID reader module which supports a wide range of UHF, LEGIC and different HF transponders in industrial handheld computers. The device is designed with ergonomic form factor for use together with handheld CASIO IT-G500.

It’s very useable for mobile data acquisition in administration, industry and logistics.

microsensys offers an attractive component platform for RFID solutions – from transponder over smart readers up to practical software tools.

---

**RFID System:**

- **Chip Solutions:** UHF/HF iID®3000/4000 based on ISO standards
  - UHF: EPC C1 G2, ISO 18000-6c
  - Alien Higgs 3/4, Impinj Monza 3/4/5, NXP UCODE
  - Temperature Sensor EM4325
- **HF (LEGIC):** LEGIC®prime, LEGIC®vant ISO15693 (customized), ISO14443 UID only
  - partial support for: Mifare® classic/UL, Mifare® DESfire, inside, Sony Felica

**Basics:**

- HF-LEGIC near field / UHF mid range
- read & write, low power
- standard command set of iID® driver engine

**RFID Air Interfaces:**

- **UHF:** 868 MHz RFID, ISO 18000-6c
- **HF:** 13.56 MHz RFID, ISO 18000-3, ISO 15693, ISO 14443

**Operating Distance:**

- **HF:** approx. 0 ... 4 cm
- **UHF:** approx. 0 ... 2 m

**Reader Antenna:** patch antenna UHF, coil HF

**Field Direction:** from the back side of handheld device

**HOST Interface:**

- CASIO IT-G500 expansion interface

**Mounting:** mountable on back side with 4 screws

**Connector:** special CASIO type for data and power supply

**Power Supply:** as provided by CASIO IT-G500

**Power Consumption:**

- typ. 40 mA (idle mode)
- typ. 350 mA UHF, typ. 80mA HF (active mode)

**Software Interface:**

- iID® driver engine (WEH 6.5, WEC 7)

**Supported Commands:** see actual API documentation of microsensys iID® driver engine

**Device Size:** special design for CASIO IT-G500

**Casing Material:** SG95

**Operation Temperature:** -5°C ... +45°C

**Storage Temperature:** -10°C ... +50°C

**Emissions:** examine for EN 300330, ETSI EN 302 208

**Protection Class:** none

---

**Type:** 47.94.500.00

**RFID Antenna:** MP2525 (UHF circular polarization), W5046 (HF inductive)

**RFID Communication Rate:**

- Transmit: 40 (UHF), 26 ... 106 (HF)
- Receive: 40-320 (UHF), 26 ... 106 (HF)