BROOKS AUTOMATION

RFID Division

Product overview HF RFID Hardware

Frequency 13.56 MHz

Ready for RFID ?

* Radio Frequency Identification

HF80 RFID Reader (MidRange)

Short features

- Stationary RFID Reader
- 5 antenna ports
- Serial interface (RS232)
- Ethernet interface
- Polling mode for each antenna port adjustable
- Configurable test mode with visual indicator
- Optional I/O's

Protocol	ASCII
Operating temperature	0°C to 50°C | 32°F to 122°F
Storage temperature	-20°C to 70°C | -4°F to 158°F
Permissible humidity	25% to 80% at 50°C | at 122°F
Protection mode	IP40
Housing	PS (Polystyrol) or ALU
Dimensions	105 x 120 x 45 mm | 4.1 x 4.7 x 1.8 in.
Weight	280 g | 9.88 oz
Serial interface RS232	1.2 kBd - 57.6 kBd
Ethernet interface	10/100baseT
Current	80 - 300 mA
Voltage	18 - 30 V
Reading / Writing impulse	140 mA
HF output	1 W
Output resistance	50 Ohm

HF70 RFID Reader (LongRange)

Short features

- Stationary RFID Reader
- RFID reader for long ranges
- 4 antenna ports
- Serial interface (RS232)
- Ethernet interface
- Test mode feature
- Polling mode / adjustable for each antenna
- Optional I/O's

Protocol	ASCII
Serial interface RS232	9.6 kBd - 57.6 kBd
Ethernet interface	10/100BaseT
HF output	8.0 W
Dimensions	105 mm x 176 mm x 76 mm | 4.1 in. x 6.9 in. x 3.0 in.
Weight	1200 g | 42.3 oz
Operating temperature	0°C to 50°C | 32°F to 122°F
Storage temperature	-20°C to 70°C | -4°F to 158°F
Permissible humidity	25% to 80% at 50°C | 122°F
Protection mode	IP40
Housing	ALU
Voltage	12 +/- 10% V DC
Current	1.25 A
Reading / Writing impulse	140 mA

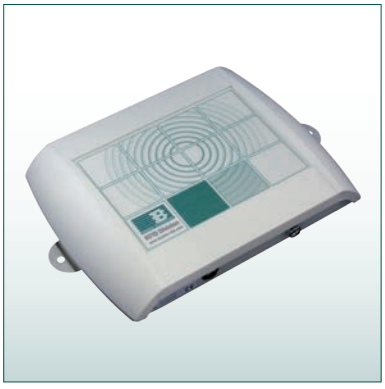
HF60 RFID Reader (EEPC)

Short features

- Stationary RFID reader
- RS232 or Ethernet interface
- Up to 5 antennas connectible
- Polling mode for each antenna port adjustable
- Configurable test mode with visual indicator
- Different stages of extension available
- Optional I/O's

Protocol	ASCII
Serial interface RS232	1200 Bd - 57600 Bd
Ethernet interface	10/100BaseT
HF output	1 W
Dimensions	105 x 120 x 45 mm | 4.1 x 4.7 x 1.8 in.
Weight	650g | 22.9 oz
Operating temperature	0°C to +50°C | 32°F to 122°F
Storage temperature	-25°C to +70°C | -13°F to 158°F
Permissible humidity	25 - 80% at 50°C | 25 - 80% at 122°F
Protection mode	IP40
Housing	ALU
Voltage	12 - 32 V DC
Current	60 mA at 24 V DC
Fuse type TR5	500 mA

HF60 RFID Reader (SAV)



Short features

- Stationary RFID reader
- Compact solution
- Power over Ethernet
- Input and output connections
- Shielded against metal in the environment

Antenna	Frame antenna
Protocol	ASCII
Dimensions	200 x 270 x 48 mm | 7.9 x 10.6 x 1.9 in. (without mounting plates)
Weight	1.320 g | 46.6 oz.
Operating temperature	0°C to 50°C
Storage temperature	-20°C to 70°C | -4° to 158°F
Relative humidity	25% to 80% at 50°C | 122°F
Housing	ABS
Protection class	IP40
Transmitting power	300 mW
Ethernet Interface	10/100 BaseT
Voltage	18 - 30 V
Current	60 mA at 24 V

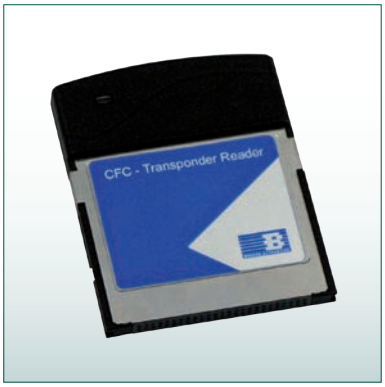
HF60 RFID Reader (IAE)

Short features

- Stationary RFID Reader
- Integrated Antenna
- Ethernet Interface
- Power over Ethernet (PoE)
- Compact Design

Antenna	Frame antenna
Protocol	ASCII
Dimension	141 x 91 x 52 mm | 5.6 x 3.6 x 2.05 in. (without mounting flaps)
Weight	380 g | 12.2 oz.
Operation temperature	0°C to 50°C | 32° to 122°F
Storage temperature	-20°C to 70°C | -4° to 158°F
Permissible humidity	25% to 80% at 50°C | 122°F
Housing	ABS
Protection mode	IP40
HF Output	300 mW
Ethernet Interface	10/100 BaseT
Voltage	PoE (Power over Ethernet)
Current	60 mA

HF40 RFID Card (CF)

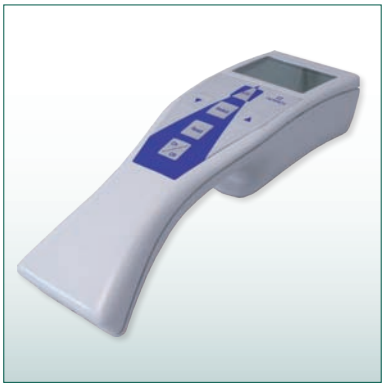


Short features

- RFID card for CF slot
- Plug & play device
- Operates ISO15693 and EPC transponders
- Bulk reading and anti collision
- Including GUI for PDA or laptop
- For mobile devices or laptops

Antenna	Frame antenna
Provided additionals	Software for Graphical User Interface (GUI)
Dimensions	55 x 43 x 3,6 mm | 2.17 x 1.7 x 0.14 in.
Operating temperature	0°C to 50°C | 32°F to 122° F
Storage temperature	-25°C to 70°C | -13°F to 158°F
Permissible humidity	25% to 80% at 50°C | at 122°F
System requirements	CF-Card Type I for Win9x/2000/NT/XP/CE
Voltage	3.3 V oder 5 V
Current consumption active mode	90 mA
Current consumption passive mode	50 mA
Reading range	approx. 90 mm | 3.54 in. (Cardtransponder)
Writing range	approx. 60 mm | 2.36 in. (Cardtransponder)

HF40 RFID Scanner (Scan_ID)



Short features

- Mobile RFID handheld reader
- Stand alone device
- Ergonomic design
- Customized key assignment and GUI
- Bulk scanning and anticollision

Dimensions	220 x 70 x 40 mm | 8.7 x 2.8 x 1.4 in.
Weight	310 g | 11 oz
Operating temperature	0°C to 50°C | 32°F to 122°F
Storage temperature	-25°C to 70°C | -13°F to 158°F
Permissible humidity	25% to 80% at 50°C | at 122°F
Protection mode	IP40
Housing	ABS
Li+battery	7.2 V /1450 mAh
Reading range	100 mm | 3.9 in. (Card transponder)
Writing range	90 mm | 3.5 in. (Card transponder)
Typical periode of charging impulse	50ms
Max. repeat of reading	8/s

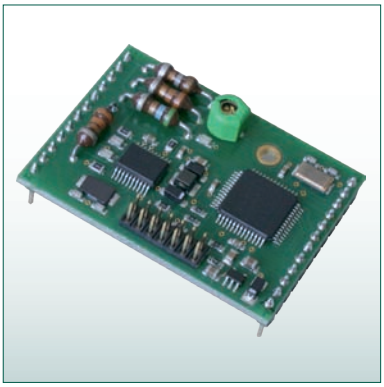
HF40 RFID Reader (THR)

Short features

- Mobile RFID scanner
- Connection per USB or PS2
- Substitute for Barcode scanner
- Display of information in textdocument or input field
- Ready for use quickly

Dimension	165 x 110 x 80 mm | 6.5 x 4.3 x 3.2 in.
Weight	220 g | 7.76 oz
Operating temperature	0°C to 50°C | 32° to 185°F
Storage temperature	-40°C to 85°C | -40° to 185° F
Permissible humidity	25% to 80% at 50°C | 122° F
Protection mode	IP40
Housing	ABS
Current consumption active mode	120 mA
Current consumption passive mode	60 mA
Typical read time	100 ms
Current Standby	60 mA

HF30 RFID Module (OEM)



Short features

- RFID Module
- Frequency 13,56 MHz
- Dimensions 45 x 33,5 x 15 mm
- Suitable for OEM products

Antenna	External
Interface	Serial interface, 19200 Bd, 8, no, 1, C-MOS
Matching transponder types	13.56 MHz, ISO15693, I-Code
HF output	250 mW, 50 Ohm
Dimensions	45 mm x 33.5 mm x 15 mm | 1.8 in. x 1.3 in. x 0.6 in.
Weight	7 g | 0.2 oz
Operating temperature	-40°C to 85°C | -40°F to 185°F
Storage temperature	-25°C to 70°C | -13°F to 158°F
Housing	PCB
Voltage	5 +/- 5% V, controlled
Current consumption active mode	90 mA
Current consumption passive mode	40 mA

HF20 RFID Reader (USB)

Short features

- Compact RFID reader
- ISO 15693, I-CodeTM, EPC-capable
- USB 2.0 interface
- Power over USB
- Windows XPTM driver
- Hot plug-in
- ASCII protocol

Antenna	Frame antenna
Voltage	5 +/- V (from USB)
Current consumption active mode	90 mA
Current consumption passive mode	40 mA
Interface	serial Ethnernet, 19200 Bd
Storage temperature	-40°C to 85°C | -40°F to 185°F
Operating temperature	-25°C to 70°C | -13°F to 158°F
HF output	250 mW
Impedance	50 Ohm
Dimensions	68 x 108 x 22 mm | 2.7 x 4.3 x 0.9 in.

RFID Testkit

Short features

- RFID Kit for test purposes
- Frequency 13,56 MHz
- including RFID reader & RFID antenna
- including various tags
- fast installation
- robust plastics suitcase

1 Transponder Reader HF 5X ASC-I1
1 Power supply with adaptors (Euro, US, UK)
1 HF Frame antenna
1 HF Mini antenna
1 HF Antenna cable
1 HF Antenna bracket
1 Extension cable for RS232 interface
1 Sensor cable
1 Test cable I/O for Eval-Kit
2 HF Card transponders
1 Transponder Box
1 CD with Test software
1 Suitcase

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