

HARfid Industrial RFID – System UHF



List of base features (base options) :

- **Communication-Network Area / Front-End communication processor for integral 'Single-Shot' and 'Multi-Tag' Detection to reduce redundancy.**
- **Rapid Read-Rate: Even fast moving transponders are detected with high reliability. Speed Rate is only depending of amount of data being transferred in one cycle.**
- **Seamless integration to existing Ethernet infrastructure areas with TCP/IP- Protocol stack based upon IEEE 802.3 Standards and all its derivatives. USB and RS-232 on request / RS-485 as an option**
- **USB and RS-232 or RS-485 interface as a further option to Ethernet Link within the same IP67 case available.**
- **Ultra-compact and therefore space-saving DIN Rail construction on back or side mount rack available.**
- **IP54 or IP40/30 for internal rack mount installation as a further option on request.**
- **Wide temperature range as standard/ -extended temperature range with heater and/or cooler on request.**



Read\Write Interrogator 'HARfid RF800R'

Description	Stationary interrogator with discrete power Supply
Display	3 LEDs (Power (yellow), Error-Flag(red), "Tag detected and successfully read !" (green))
Dimensions	85mm x 170mm x 169mm
Case\Housing material	Aluminium
Protection class	IP 65 / (IP54 & IP40) on request.
Operating Temperature	-20°C ... +55°C / Extended Temp.Range with heater\cooler on request.
Storage Temperature	-40°C ... +85°C
Relative Humidity	5% ... 95%
Power Supply range	10 ... 36V DC / (+-5% max. Deviation from mean value)
Frequency area	865 - 870 MHz (EU) / 915 (USA) on request / [Other countries on project request]
HF-Parameter :	2 W ERP (ETSI EN 302 208), [option 0,5 W (ETSI EN 300 220)]
-> Max. HF Power Rating	4W EIRP (FCC Part 15) Ausgangsleistung
-> HF Configuration scheme	Configurable within 10 steps (0.1 \0.25 \0.5 \0.75 \1.0 \1.5 \2.0 \2.5 \4.0 \MAX.)
Transponder-protocol	ISO 18000-6 Typ: A/B , EPC Global Gen 2 (In preparation) ATMEL TAGIDU (to be used for max. Data capacity)
Infrastructure Interface	Ethernet (TCP/IP) 10/100Mbps Full spec. 802.3 and all its derivatives / USB 1.1 and USB2.0 as an option / RS-232 and RS483 as dual-use alternative to Ethernet-(802.3) / HTTP / TELNET / HTTPS / SNMP-II / POP3 / SNMP/ FTP
Bulk-Read capability	Yes, up to 100 Transponder/sec depending on speed and/or amount of data being transferred simultaneously.
Max.Operating Distance	Up to 5m, depending on kind of Transponder & environmental conditions
Read-/Write Distance	Up to 4m, depending on kind of Transponder & environmental conditions. Write-Cycle is also depending on speed & amount of data.

Antenna HARfid RF800A

Description:	Stationary antenna for Read\Write-Interrogator 'HARfid RF800R'
Dimensions:	305mm x 305mm x 25mm
Frequency area:	865 - 870 MHz /
Polarisation	Circular - Right
Operating Temperature	-55°C ... +70°C
Protection Class	IP 54

Transponder HARfid LT

Frequency area	868 MHz.
Dimensions	135 x 30 x 8
Case\Housing material	LCP
Protection class	IP 67
Operating Temperature	-40°C ... +85°C, max.Temp. (<24 hrs.) / +180°C
Storage Temperature	-50°C ... +85°C

Contact information for all inquiries :

Mr. Dipl.-Ing.(FH) Detlef Tenhagen
detlef.tenhagen@harting.com
Harting Electric GmbH & Co KG
Wilhelm-Harting-Straße 1
32339 Espelkamp
Tel.: +49 5772 47 305
Fax.: +49 5772 47 9131



People | Power | Partnership