PRODUCT DATASHEET

iID® Read Write Interfaces

INDUSTRY 0906ext UHF

Industrial UHF RFID read/write unit for external antennae

The integrated industry reader is designed for high speed UHF transponder and sensor applications and can used under harsh industrial environments. This device is available in compact form factor with different HOST interfaces as P-CAN, USB, RS232 or Ethernet and connecting possibilities for two external UHF antennae. A comfortable set of software functions supported over *microsensys* iID driver engine as well as scripting mode (SPC) makes this reader very flexible for customer solutions.

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

Basics:	UHF (868MHz), far field read / write unit with external antennae
	DOC (direct online communication) and SPC (script programmed communication) mode

RF System:	UHF: iID®4000
Standards:	based on ISO 18000-6C
Chip Solutions:	EPC C1 G2 / ISO 18000-6C, Alien Higgs 3/4, Impinj Monza 3/4/5, NXP UCODE, Temperature Sensor EM4325

RFID Air Interface:	868 MHz RFID
Operating Distance:	0 … 10m, depending on transponder type and metal environment
Reader Antenna:	2x50Ω connector for external antenna, multiplexed
Field Direction:	-
Communication Rate:	transmit: up to 160 kbps, receive: up to 320 kbps

HOST Interface:	USB or P-CAN or Ethernet or RS232 standard
Connector:	mini USB or Binder series 712, SMA jack antenna connector
Power Supply:	5V±5% (USB, stabilized) or +7.5V..24V (unstabilized)
Power Consumption:	typ. 100mA (USB, idle mode, +5V), typ. 400mA (USB, active mode, +5V)
Software Interface:	iID® interface protocol V4
Supported Commands:	see actual API documentation of microsensys iID® driver engine

Housing:	plastic small design
Device Size:	approx. 96 x 66 x 30mm^3
Casing Material:	POM (black), PC (transparent)
Mounting:	mountable with 2 screws, mounting on metal surfaces possible

Environmental Conditions:	industrial IP 67
Operating Temperature:	-5°C…+70°C
Storage Temperature:	-25°C … +85°C
Protection Class:	IP 67

Emissions:	CE	EN 302 208-2, on inquiry FCC part 15

Order Information:

Type:	46.29.850.00	46.23.850.00	46.27.850.00*	46.21.850.00	46.20.850.00
RFID Antenna:	2 external	2 external	2 external	2 external	2 external
HOST Interface:	USB	Ethernet	P-CAN	RS232	2xIN, 1xOUT/ USB
Power Supply:	5V+/-5%	7.5V…24Vdc	7.5V…24Vdc	7.5V…24Vdc	5V+/-5%

*) in development or delivery only for special projects