PRODUCT DATASHEET

iID® Read Write Interfaces

iID®PENsolid HF

Mobile HF-RFID read/write device & HID scanner

iID® PENsolid is one of microsensys's mobile RFID devices for wireless data capture. iID® PENsolid comes with patented[1] technology for operation and connectivity with smart mobile devices like smart phones and tablets.

Excellent features for mobile use and the touch feature make the device useful for wireless data capture in field service, mobile maintenance as well as process documentation in administration, industry and logistics. iID® PENsolid supports a wide field of different HF* transponders and sensor transponders (*UHF version available as separate device).

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

Basics:	HF RFID read / write unit,RFID keyboard scanner, MPC RFID data collector
Control:	power button, scan button
Output:	power LED (orange), connect LED (blue), RF state LEDs (red/green)

RFID Air Interface:	RFID system iID®3000	HF (13.56 MHz)
Standards:		based on ISO ISO15693, ISO14443 A/B
Chip Solutions:		I-CODE®, Tag-it®, my-D®, iID®M, EM chip types
		iID®G, TELID®200, TELID®300, Mifare Ultralight/Classic, NXP N-TAG, mic3-TAG (type HFcc)
Operating Distance:		0 ... 5 cm, depending on transponder size, type and environmental conditions
Field Direction:		front, touch tip direction

HOST Interface:	Bluetooth™	
Wireless host interface:		Bluetooth™ 2.0, profiles: HID/ SPP, up to 10m communication range
Communication Modes:		Bluetooth™ server or client mode
Connectors:		USB micro (type B), for battery charging and device configuration
Software Interface :		iID® driver engine (Windows, Windows Mobile, Android)
Supported Commands:		see actual API documentation of microsensys iID® driver engine

Operation Modes:	programmable	
Operation Modes:		DOC or SPC, MPC on inquiry
Power Modes:		SLEEP, IDLE, ACTIVE
Power Consumption:		SLEEP typ. 5 µA , IDLE typ. 30 mA, ACTIVE max. 200 mA

Battery:	Li-Ion rechargeable	
Type:		Li-Ion accumulator 3.7 V, 420 mAh, replacement by service
Operation Time:		up to 10h, depending on operation mode
Charging:		micro USB cable, via micro USB connector
Battery Life Time:		up to 3 years, max. 700 recharge cycles

Device Size:	PEN style form factor	117 mm x 27mm x 19(23) mm
Casing Material:		plastic
Operation Temperature:	0°C ... +60°C	
Storage Temperature:		-20°C ... +70°C, recommendation 25°C

Certifications:	CE, FCC, IC, Anatel	
Protection Class:	IP 65	
Drop Test:	IEC 60601-1	examine at 1.2 m

Type :	73.72.750.00	73.72.751.00	73.72.752.00	73.72.750.10*
Downloaded OP System:	iID®3000	iID®3000	iID®3000	iID®3000
Reader Antenna:	K3	K3	K3	K3, no tip
				(type HFcc) cm
Region:	EU (CE)	US, CA (FCC, IC)	JP	EU (CE)

[1](EP 1479038 B1, US 7456826 B2)   *) in development / on request for projects