

PRODUCT DATASHEET

iID® Read Write Interfaces

iID® PENSolid UHF

Mobile UHF-RFID read/write device & HID scanner

iID® PENSolid is one of microsensys's mobile RFID devices for wireless data capture. iID® PENSolid comes with patented¹ 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 UHF* transponders and sensor transponders (*HF version available as separate device).

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



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RFID in motion

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This data sheet is subject to change.
contact microsensys for latest information

PENSolid-UHF 005.

Basics:	UHF RFID read / write unit, RFID keyboard scanner, MPC RFID data collector (on inquiry)		
Control:	power button, scan button		
Output:	power LED (orange), connect LED (blue), RF state LEDs (red/green)		
RFID Air Interface:	RFID system iID®4000	UHF (868/915 MHz)	
Standards:		based on ISO 18000-6c	
Chip Solutions:	Alien Higgs 3/4, Impinj Monza 3/4/5, NXP U-CODE, TELID®400, TELID®500	murata MAGICSTRAP™, Hitachi IM5-PK2525	
Operating Distance:	0 ... 10 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. 5µA , IDLE typ. 60 mA, ACTIVE max. 400 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:	-20°C ... +60°C		
Storage Temperature:	-25°C ... +65°C		
Battery Loading Temperature:	0°C ... +45°C		
Emissions:	examine for EN 302 208		
Protection Class:	IP 65		

Type :	43.72.850.00	43.72.851.00	43.72.852.00	43.72.853.00	
Downloaded OP System:	iID-4000	iID-4000	iID-4000	iID-4000	
Reader Antenna:	P3U	P3U	P3U	P3U	
Communication range:	0..10	0..10	0..10	0..10	cm
Region:	EU (ETSI)	US,CA (FCC,IC)	JP	AU, NZ	

¹(EP 1479038 B1, US 7456826 B2)

*) in development / on request for projects