

D22-DUALTAGsp V6

DUAL BAND UHF/HF RFID transponder

- passive dual-frequency RFID (UHF + HF)
- EPC Gen2v2 compliant (ISO/IEC 18000-63)
- NFC Forum Type 5 Tag compliant (ISO/IEC 15693)
- excellent performance on metal, suitable for non-metallic assets
- engineered for integration into plastic and metal nameplates
- robust design for industrial identification, maintenance and asset management applications

microsensys dual-frequency transponders integrate the strengths of NFC and RAIN RFID technologies in a single device, enabling flexible and efficient identification and traceability solutions. Full access to the shared memory via both wireless interfaces ensures consistent data availability and seamless data exchange across multi-frequency RFID environments.



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This data sheet is subject to change.
Picture may differ from original product.
DS-D22-DUALTAGsp V6 021.docx

Contactless interface:

Chip Type / Compliance:

far field UHF RFID system iID®4000, near field HF RFID system iID®2000
em | echo-V / UHF: EPC Gen2v2, ISO1800-63

Carrier Frequency / Communication Rate:

HF: NFC forum type 5 compatible ISO15693/18000-3
UHF: 860-868 MHz, 915 MHz (preferably 860-868 MHz), HF: 13.56 MHz
UHF forward link: 40-160 kbps, return link: 40-640 kbps, HF: 26.4 kbps
linear

Polarisation:

Communication Distance:

UHF: 0 ... 1.5 m, HF: 0 ... 3 cm

(depending on reader system and environmental conditions)

Memory Parameters:

EPC/TID Memory:

User Memory:

Endurance:

non-volatile memory, EEPROM
up to 480-bit EPC/UII encodings, 64-bit HF UID, 96-bit UHF TID memory
246-byte HF and 246-byte UHF maximum user memory
write endurance > 10⁵ cycles, data retention up to 50 years (T≤55°C)

Security features:

Memory Management:

Write Protection

Originality:

password protected read / write access

lock feature

dual frequency, shared memory

Mechanical / Environmental:

Dimensions:

Packaging Material:

Mounting:

diameter 22 mm, height 5.25 mm

PA66 GF30

integrated flange secures the transponder in the plate opening without adhesive,
it is automatically retained when the plate is mounted

Operating temperature:

Storage temperature:

IP-Protection Class:

Environmental test conditions:

Immerse for 24 hours:

Vibration:

Drop test:

-40°C ... +85 °C

-40 °C ... +85 °C

IP 68

storage in climate chamber (85%rH, 85°C) for 24 hours

motor oil, ethanol, salt mist (IEC60068-2-11)

according to IEC60068-2-6

according to IEC60068-2-31

Operation:

Functions:

Industrial Reading Devices:

Desktop/OEM Reading Devices:

Mobile Reading Devices:

Software:

Device Interface:

INVENTORY, READ, WRITE, (PERMA)LOCK

INDUSTRY 0906 UHF plus M8/M18 antenna, stationary industrial read write unit

iID® module U80

iID® POCKETwork, iID® PENsolid wireless reader with Bluetooth™ interface

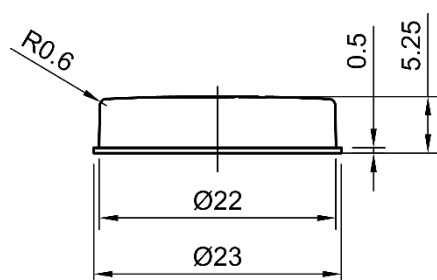
iID® DEMOsoft for PC x86/x64 and Android, iID® UII writer for PC x86/x64

iID® driver engine Windows/Android (for iID® contactless RFID interfaces)

Product code:

16.954.560.60

Dimensions:



all dimensions in mm

