ICT Proximity Silicone Wristband



ICT Proximity Silicone Wristbands provide a convenient, durable and highly secure access solution.

The slim, unobtrusive design ensures the device is comfortable in all conditions, and the wristbands are sweat and waterproof, making them an ideal choice for gyms, fitness centers or swimming facilities, and harsh outdoor and industrial environments. Wristbands are available in large, medium and small sizes, and come in either black or white.

Feature Highlights

- Utilizes MIFARE DESFire or ICT secured MIFARE technology with read/write functionality
- Waterproof silicone design prevents access to the wristband's components
- Environmental rating of IP68 ensures durability
- Available in black and white
- Choose from small, medium or large sizes
- Suitable for environments where water and/or high temperatures are present
- Wearable convenience for situations where carrying a card may not be practical or possible

MIFARE DESFire EV3

The latest addition to the MIFARE DESFire product family, MIFARE DESFire EV3 offers even more advanced hardware and software implementation on a brand new internal chip, and combines enhanced performance with a greater operating distance and improved transaction speed compared to its predecessors.

Based on global open standards for both air interface and cryptographic methods, it uses the same security certification level as IC products used for banking cards and electronic passports. Featuring an on-chip backup management system and mutual three-pass authentication, EV3 supports confidential and integrity-protected communication with secure dynamic messaging and mirroring.

- Fully compliant with the international standard ISO/IEC 14443 Type A 1-4 and ISO/IEC 7816-4
- Common Criteria EAL5+ security certified for IC hardware and software
- NFC Forum Tag Type 4 certified
- Secure, high speed command set
- Unique 7-byte serial number
- Choice of open DES/2K3DES/3K3DES/AES crypto algorithms
- Open AES 128 bit crypto algorithm in hardware
- Fully interoperable with existing NFC reader infrastructure
- Transaction timer mitigates risk of man-in-the-middle attacks
- Backwards compatible with all previous MIFARE DESFire generations

ICT Secured MIFARE

ICT Secured MIFARE is ICT's implementation of the MIFARE standard. Credential data is protected with a diversified authentication key and encrypted with an AES 256 algorithm, effectively plugging the known security flaw in the MIFARE standard.

Other MIFARE formats are also available.

Convenient

The slim, unobtrusive design ensures the wristband can be worn comfortably, including under protective clothing. This allows users to carry their credential on them at all times, making it fast and simple to move through access controlled doors.

Long Life and Durability

Extremely durable, the wristbands carry an IP68 rating meaning they are resistant to water, heat, pressure and chemicals. This makes them an ideal choice for gyms, fitness centers and swimming facilities, along with harsh outdoor and industrial environments.

Technical Specifications

The following specifications are important and vital to the correct operation of this product. Failure to adhere to the specifications will result in any warranty or guarantee that was provided becoming null and void.

Ordering Information	
PRX-SWB-MF-B-L	MIFARE Wristband (Black, Large)
PRX-SWB-MF-B-M	MIFARE Wristband (Black, Medium)
PRX-SWB-MF-B-S	MIFARE Wristband (Black, Small)
PRX-SWB-MF-W-L	MIFARE Wristband (White, Large)
PRX-SWB-MF-W-M	MIFARE Wristband (White, Medium)
PRX-SWB-DF-B-L	DESFire Wristband (Black, Large)
PRX-SWB-DF-B-M	DESFire Wristband (Black, Medium)
PRX-SWB-DF-B-S	DESFire Wristband (Black, Small)
MIFARE Wristband Specifications	
Operating Frequency	13.56MHz
Typical Maximum Read Range *	15mm (0.59")
Typical Transaction Time	< 100 ms
Communication Rate	106 Kbps
Memory	1 kB EEPROM organized in 16 sectors of 4 blocks (one block consists of 16 bytes)
Write Endurance	100,000 minimum
Data Retention	10 years minimum
DESFire Wristband Specifications	
DESFire Standard	DESFire EV3
Operating Frequency	13.56MHz
Memory	2kB
Write Endurance	1,000,000 minimum
Composition	
Material	Silicone
Dimensions	
Dimensions (C x W x T)	Large: 195 x 16 x 5 mm (7.6 x 0.6 x 0.2") Medium: 180 x 16 x 5 mm (7 x 0.6 x 0.2") Small: 152 x 16x 5 mm (6 x 0.6 x 0.2")
Net Weight	Approx. 14.5 g (0.5oz)
Gross Weight	Variable packed qty.
Operating Conditions	
Environmental Rating	IP68
Operating Temperature	-25˚ to 85˚C (-13˚ to 185˚F) / Relative Humidity 60%
Storage Temperature	-25˚ to 120˚C (-13˚ to 248˚F) / Relative Humidity 60%

* Read range is dependent on reader size, technology and installation conditions and may vary accordingly.

Integrated Control Technology continually strives to increase the performance of its products. As a result these specifications may change without notice. We recommend consulting our website (www.ict.co) for the latest documentation and product information.

Designers & manufacturers of integrated electronic access control, security and automation products.
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