

# UHF RFID USB DESKTOP Mi1800U



Mi1800U reader is an advanced UHF RFID reader/writer. Capable in detecting EPC Class 1 Gen 2 and ISO 18000-6B tags.

Mi1800U is a light weight USB based reader suitable to be integrated into payment system and for product registration.

## The SDK Package

MiRFID™ Mi1800U UHF RFID SDK system is functionally powerful and easy to use. System integrators and resellers are able to develop EPC Class 1 Gen 2 compliance applications with ease.

- ✓ Mi1800U UHF RFID USB Reader (1 unit)
- ✓ Assorted RFID Tags (50 pieces)
- ✓ Demo Software/Sample Source Code
- ✓ API & Command Set Manual

## USING MiRFID UHF RFID SDK

MiRFID™ RFID SDK package contains software components for system testing and tools for applications development. They can be fully integrated into various Integrated Development Environment (IDE)

- ✓ To control the reader in API or command level
- ✓ For the command execution test
- ✓ For the parameter change test
- ✓ For utilization or modification of tags
- ✓ To successive read tags
- ✓ To perform RFID tag related database registration and modification.

A Product of:



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## UHF SPECIFICATION

<b>Frequency</b>	860-960MHz
<b>Write Endurance Cycle</b>	100,000 cycles
<b>Data Retention</b>	Typical 10 Years
<b>AFI</b>	Yes
<b>Write Protection</b>	Block wise
<b>Physical Characteristics</b>	Flexible substrate
<b>Functions</b>	Anti-Collision: Slotted Aloha Multiple Read Capability: 50 tags/seconds (ID Read) Multiple Read Capability: 500 tags/seconds (EPC Read)
<b>Static Pressure</b>	10 N/mm <sup>2</sup>
<b>Chip</b>	NXP G2XM
<b>Antenna Material</b>	Copper
<b>Operating Temperature</b>	-20°C to 85°C
<b>Memory</b>	TID=YES / EPC:256bits
<b>RF Air Protocol</b>	EPC Class 1 Gen 2 Compliant
<b>Antenna</b>	Copper Etched
<b>Substrate Type &amp; Heat Resistance</b>	Option1: 50µm Polyester (PET) / 0.1% shrinkage at 150°C for 1 min Option2: 50µm Polyimide (PI) 0.1% shrinkage at 250°C for 1 min

## DIMENSION



22x22mm



86x86mm



80x34mm

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## READER SPECIFICATION

<b>Product Code</b>	Mi1800U
<b>RF Characteristics</b>	902-928MHz Band
<b>Tags Requirements</b>	EPC Class 1 Gen 2 & ISO 18000-6B
<b>Antenna</b>	Build-In Antenna
<b>Dimension</b>	10.5cm x 7cm x1cm
<b>Carrier</b>	Frequency Hopping Spread Spectrum
<b>Operation Temperature</b>	-10°C to 80°C (Non-Condensing)
<b>Power Supply</b>	USB Powered
<b>Interface</b>	USB
<b>API</b>	Allow interface with host applications (Windows)

## ASSORTED RFID INLAYS



Mi2222U  
Near Field UHF



Mi8686U  
Pallet Type



Mi8034U  
General Purpose and Luggage

<b>Data Sheet Version</b>	mi1800usdk
<b>Date</b>	02 October 2015

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