

**UHF Label**
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**Dimensions**

150x10mm	93x 11mm	94.8x8.1mm	95x8.15mm
86x54mm	92x11mm	93x19mm	95x5.4mm
39x19mm	88x24mm	70x9.5mm	94x38mm
	85.9x24mm	70x17mm	70x70mm
101.6x76.2mm	70x14mm	44x46mm	70x14.5mm
100x15mm	69.8x14mm	44.5x10.4mm	50x30mm
80x50mm	69.4x14mm	30x45mm	40x18mm
73x23mm	68x68mm	22.5x22.5mm	40x15mm
55x17mm	50x50mm	12x9mm	38x94mm
50x50mm	50x30mm		23x5mm
40x25mm	49.2x30mm	97x24mm	22x22mm
35x35mm	22x8mm	87x27mm	20x10mm
30x15mm		81x45mm	16x16mm
		32x32mm	

**Weight**

0.5g

**Personalization**

 Offset Printing  
 / Silkscreen  
 Printing /  
 Encoding

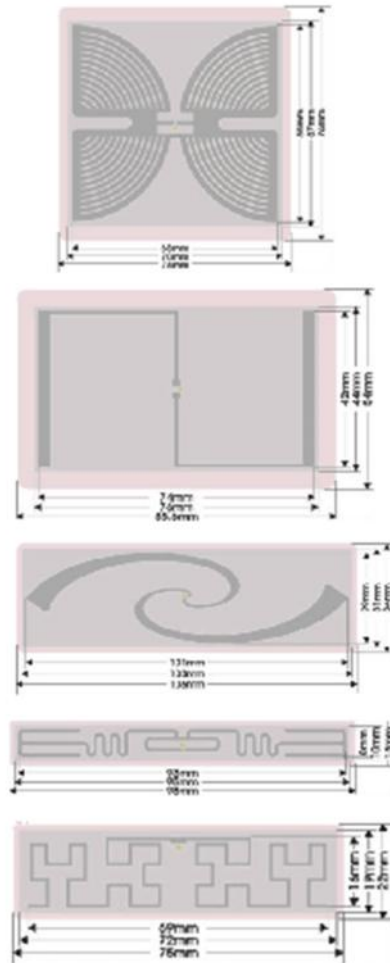
**Material**

 Paper / PET /  
 PVC

**Temperature**

 -25°C to  
 +50°C

**Packaging**

 Single /  
 Fanfold / Roll


## RT1100

RT1100 UHF RFID desktop reader is the ideal reader for UHF application development and card issuing applications. RT1100 is a versatile reader that supports both EPC Class 1 Gen 2 and ISO 18000-6B standards. Comes with a built in compact antenna, RT1100's firmware is fully compatible with reader range - making it a very scalable platform for UHF application development and prototyping.



<b>Operating Frequency</b>	865-867 MHz
<b>RF protocol</b>	ISO18000-6B EPC Class 1 EPC Class 1 GEN 2
<b>Transmission Method</b>	FHSS or Fixed Frequency (Software Configured)
<b>Antenna</b>	Built-In
<b>Maximum RF Power</b>	30 dBm
<b>RF Power Resolution</b>	<0.5 db
<b>RF Power Range</b>	20 to 30 dBm (Software Configured)
<b>Tag Identification Mode</b>	Time Triggered or Event Triggered
<b>Tag Identification Time</b>	<8ms per tag
<b>Tag Reading</b>	Time: 5ms every 8 bytes Range: >20cm
<b>Tag Writing</b>	Time: 25ms every 4 bytes Range: 70% of Read Range
<b>Communication Interface</b>	RS232 USB-COM USB-HID
<b>Power Supply</b>	5VDC
<b>Power Consumption</b>	5W
<b>Dimension</b>	Reader: 140 x 105 x 34mm Packaging: 440 x 260 x 85mm
<b>Weight</b>	0.04kg (Gross) 0.16kg (Net)
<b>Temperature</b>	Operating: -20°C to +70°C Storage: -40°C to 85°C
<b>Reader Indicators</b>	Buzzer Power LED Communication LED Read LED
<b>Software Developer Kit</b>	

## FID Tags

RFID Class-1 Generation-2 ("Gen-2") tags are used for item level identification in retail environments. "Class-1" refers to the functionality of the tag while "Gen-2" refers to the physical and logical standards of tag and the encompassing system. These standards are maintained by EPCglobal. "Gen-2" standards were adopted in December of 2004 and offer many advantages over "Gen-1" such as:

- An interoperable, global standard
- Faster and more flexible read speeds
- Faster, more accurate performance through the use of advanced anticollision protocols
- An easier way to deploy many readers at one time to end users
- Enhanced security and privacy

RFID tags are classified as Class 0 through Class 5, depending on their functionality:

Class 0	UHF read-only, preprogrammed passive tag
Class 1	UHF or HF; write once, read many (WORM)
Class 2	Passive read-write tags that can be written to at any point in the supply chain
Class 3	Read-write with onboard sensors capable of recording parameters like temperature, pressure, and motion; can be semipassive or active
Class 4	Read-write active tags with integrated transmitters; can communicate with other tags and readers
Class 5	Similar to Class 4 tags but with additional functionality; can provide power to other tags and communicate with devices other than readers

(Class-1 Gen-2 RFID tags are backward-compatible with Gen-1 Class-0 and Class 1 tags.)