

# Scanfob® qID Mini Specifications

PART NUMBER: R1170I

	HID / SPP	iAP (MFi) / SPP
<b>ELECTRICAL</b>		
<b>Interface Protocol(s)</b>	ISO 18000-6C/EPC C1G2	
<b>Operating Frequency Range</b>	865.600÷867.600 MHz (ETSI EN 302 208 v. 1.4.1) 902÷928 MHz (FCC part 15.247)	
<b>Transmit Power</b>	Programmable in 18 levels from 5dBm e.r.p. (3mW e.r.p.) to 22dBm e.r.p. (150mW e.r.p.)	
<b>Number of Channels</b>	4 channels (compliant to ETSI EN 302 208 v. 1.4.1.) 50 hopping channels (complaint to FCC part 15.247)	
<b>Antenna</b>	Integrated linear (horizontal)	
<b>Max Read Range</b>	90cm (typical for large tags)	
<b>Data Interface</b>	HID, SPP	iAP (MFi), SPP
<b>Power Source</b>	Micro USB	
<b>Battery Option</b>	Yes	
<b>Battery Type</b>	Li-Ion 3.7V, 570mAh	
<b>Charging Method</b>	Micro USB	
<b>Charge Cycles</b>	10,000	
<b>Charging Time</b>	2 hours	
<b>Operating Time</b>	Operating: >12h with 40.000 tag readings Standby: >15 days	
<b>PHYSICAL</b>		
<b>Dimensions</b>	99 x 54 x 20 mm <sup>3</sup> (3.9 x 2.1 x 0.8 in <sup>3</sup> )	
<b>Weight</b>	57 g	

<b>ENVIRONMENT</b>		
<b>Operating Temperature</b>	-10 °C to +55 °C	
<b>Protection</b>	IP 32	
<b>COMPATIBILITY</b>		
<b>Operating Systems</b>	Mac, Windows, iOS, Android	Mac, Windows, iOS, Android

<b>USER INTERFACE</b>	
<b>Buttons</b>	Button #1: ON/OFF Button #2: Trigger
<b>LEDs</b>	Led #1: power indication and battery status (green: high; red: low) Led #2: communication activity (blue: Bluetooth; orange: USB)
<b>Haptic Feedback</b>	Events signalling
<b>Auditory Feedback</b>	Bitonal for events signalling
<b>Display</b>	LCD alphanumeric (8 chars x 2 lines)

<b>CONNECTIVITY</b>	
<b>USE Interface</b>	USB 2.0 Full Speed (12 Mbit/s) device port
<b>Bluetooth Interface</b>	Class 2 with output power 4dBm e.i.r.p.
<b>Virtual COM Port Parameters</b>	Baudrate: < 230.400kbps Databits: 8 Stopbits: 1 Parity: none Flow control: none

<b>WARRANTY</b>	
<b>Return Policy</b>	30 days
<b>Setup Support</b>	30 days

<b>Manufacturer Defect Warranty</b>	1 year
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# [RFID TAG] SPECIFICATIONS

PART NUMBER:

<b>RFID</b>	
<b>Tag Type</b>	GS1/EPCglobal UHF Gen2 (ISO 18000-63)
<b>Operating Frequency</b>	13.56 MHz
<b>Data Transfer Rate</b>	106 kb/s
<b>Data Integrity</b>	16-bit CRC/bit coding/bit counting
<b>Operating Distance</b>	2 in
<b>Anti-Collision</b>	Peel-and-stick adhesive backing
<b>PHYSICAL</b>	
<b>Dimensions</b>	L x W x H mm
<b>Weight</b>	5 g
<b>Casing/Material</b>	PET
<b>Adhesive</b>	Yes
<b>MEMORY</b>	
<b>Memory Type</b>	EEPROM
<b>Data Retention</b>	10 years
<b>Write Endurance</b>	100,000 cycles
<b>SECURITY</b>	
<b>UID/UUID</b>	
<b>Originality Signature</b>	ECC supported originality check
<b>Locking Function</b>	Yes

<b>Password Protection</b>	32-bit password
<b>WARRANTY</b>	
<b>Return Policy</b>	30 days
<b>Setup Support</b>	30 days
<b>Manufacturer Defect Warranty</b>	1 year
<b>ADDITIONAL OPTIONS &amp; FEATURES</b>	
<b>Anti-Metal</b>	No
<b>Custom Options</b>	Single color logo

# [BARCODE READER] SPECIFICATIONS

PART NUMBER:

	[Variation 1]	[Variation 2]	[Variation 3]
<b>PHYSICAL</b>			
<b>Power Source</b>	Micro USB/Battery	Micro USB/Battery	Micro USB/Battery
<b>Battery Option</b>	Embedded	Embedded	Embedded
<b>Battery Type</b>	Lithium-Ion polymer rechargeable (240 mAH)	Lithium-Ion polymer rechargeable (240 mAH)	Lithium-Ion polymer rechargeable (240 mAH)
<b>Charging Method</b>	Micro USB	Micro USB	Micro USB
<b>Charge Cycles</b>	10,000	10,000	10,000
<b>Charging Time</b>	6 hours	6 hours	6 hours
<b>Operating Time</b>	10 hours	10 hours	10 hours
<b>Dimensions</b>	L x W x H	L x W x H	L x W x H
<b>Weight</b>	50 g	50 g	50 g
<b>Memory RAM</b>	1 MB	1 MB	1 MB
<b>Memory FlashROM</b>	1 MB	1 MB	1 MB
<b>Keys</b>	1 scan button, 1 function button	1 scan button, 1 function button	1 scan button, 1 function button
<b>Real Time Clock</b>	Quartz RTC	Quartz RTC	Quartz RTC
<b>Microprocessor</b>	32 bit	32 bit	32 bit
<b>INTERFACE</b>			
<b>Bluetooth</b>	HID, SPP	HID, MFi, SPP	BLE
<b>USB</b>	Mini USB	Mini USB	Mini USB

<b>Batch Mode</b>	Yes	No	No
<b>ENVIRONMENT</b>			
<b>Operating Temperature</b>	0-50 °C (32-122 °F)	0-50 °C (32-122 °F)	0-50 °C (32-122 °F)
<b>COMPATIBILITY</b>			
<b>Operating Systems</b>	Mac, Windows, iOS, Android	Mac, Windows, iOS, Android	Mac, Windows, iOS, Android
<b>Barcode Types</b>	1D	2D, 1D	2D, 1D
<b>SCANNING CHARACTERISTICS</b>			
<b>Decide Rate</b>	100 decodes/second	100 decodes/second	100 decodes/second
<b>Light Source</b>	650nm visible laser diode	650nm visible laser diode	650nm visible laser diode
<b>Depth of Field</b>	60-570 mm	60-570 mm	60-570 mm
<b>Barcode Symbologies</b>	All 1D	All 1D and 2D	All 1D and 2D
<b>WARRANTY</b>			
<b>Return Policy</b>	30 days	30 days	30 days
<b>Setup Support</b>	30 days	30 days	30 days
<b>Manufacturer Defect Warranty</b>	1 year	1 year	1 year
<b>ADDITIONAL OPTIONS &amp; FEATURES</b>			
<b>Enclosed Items</b>	Reader, Quick Start Guide	Reader, Quick Start Guide	Reader, Quick Start Guide
<b>Custom Options</b>			

# [ADAPTER] SPECIFICATIONS

PART NUMBER:

	[Variation 1]	[Variation 2]
<b>ELECTRICAL</b>		
<b>Power Supply</b>	Pin 9 serial DB9 connector, wall supply: 5 VDC @ 1A	Pin 9 serial DB9 connector, wall supply: 5 VDC @ 1A
<b>Battery Option</b>	Yes	No
<b>Battery Type</b>	Lithium Polymer 3.7V 1500mAh	N/A
<b>Charging Method</b>	Pin 9 serial DB9 connector, wall supply: 5 VDC @ 1A	N/A
<b>Charge Cycles</b>	10,000	N/A
<b>Charging Time</b>	6 hours	N/A
<b>Operating Time</b>	10 hours	N/A
<b>INTERFACE</b>		
<b>Serial Type(s)</b>	RS-232	RS-232
<b>Serial Interface(s)</b>	DB9 Female (DCE), DB9 Male (DTE)	DB9 Female (DCE), DB9 Male (DTE)
<b>Data Rates</b>	1200, 2400, 4800, 9600, 19.2k, 38.4k, 57.6k, 115.2k, 230k	1200, 2400, 4800, 9600, 19.2k, 38.4k, 57.6k, 115.2k, 230k
<b>Characters</b>	7 or 8 Data Bits	7 or 8 Data Bits
<b>Parity</b>	Odd, Even, None	Odd, Even, None
<b>Stop Bits</b>	1 or 2	1 or 2
<b>Flow Control</b>	Hardware (RTS/CTS) or None	Hardware (RTS/CTS) or None
<b>Control Signals</b>	CTS, RTS	CTS, RTS



<b>Radio(s)</b>	Class 2 Bluetooth (up to 10 meters)	Class 2 Bluetooth (up to 10 meters)
<b>Profiles</b>	SPP, HID	SPP, HID
<b>Connection Modes</b>	Master, Slave, Instant Cable Replacement	Master, Slave, Instant Cable Replacement
<b>Protocols</b>	Bluetooth 2.0 with high EDR data rate (compatible with 1.1 and 1.2)	Bluetooth 2.0 with high EDR data rate (compatible with 1.1 and 1.2)
<b>PHYSICAL</b>		
<b>Dimensions</b>	L x W x H	L x W x H
<b>Weight</b>	10 g	10 g
<b>Casing</b>	ABS, Blue	ABS, Blue
<b>ENVIRONMENT</b>		
<b>Operating Temperature</b>	0-50 °C (32-122 °F)	0-50 °C (32-122 °F)
<b>COMPATIBILITY</b>		
<b>Operating Systems</b>	Mac, Windows, iOS, Android	Mac, Windows, iOS, Android
<b>WARRANTY</b>		
<b>Return Policy</b>	30 days	30 days
<b>Setup Support</b>	30 days	30 days
<b>Manufacturer Defect Warranty</b>	1 year	1 year
<b>ADDITIONAL OPTIONS &amp; FEATURES</b>		
<b>Enclosed Items</b>	Reader, Quick Start Guide	Reader, Quick Start Guide
<b>Custom Options</b>		



As per Dave's demonstration, let's fill out the product descriptions to match the following example below.

### **POWER SUPPLY**

Pin 9 of serial DB9 connector  
Must be regulated to 4-11 VDC

Wall Supply: 5 VDC @ 1A, Plug size (1.3 x 3.5 x 9.5 mm)

USB Cable: Draws Power from USB Port

### **SECURITY / PROTECTION**

FHSS (Frequency Hopping Spread Spectrum) Security

### **DATA RATES**

1200, 2400, 4800, 9600,  
19.2k, 38.4k, 57.6k, 115.2k, 230k

### **CHARACTERS**

7 or 8 Data Bits

### **PARITY**

Odd, Even, None

### **STOP BITS**

1 or 2

### **FLOW CONTROL**

Hardware (RTS/CTS) or None

### **PROTOCOLS**

Bluetooth Specification 2.0 - with high EDR data rate  
Compatible with 1.1 and 1.2

### **CONTROL SIGNALS**

CTS, RTS

### **SERIAL CONNECTOR**

DB9 Female (DCE)  
DB9 Male (DTE)

### **PROFILES**

Serial Port Profile (SPP)  
Human Interface Device (HID)

### **CONNECTION MODES**

Master

Slave  
Instant Cable Replacement

### **RADIO**

Class 2 Bluetooth (up to 10 meters)

### **INDICATORS (LED)**

Power  
Connection Status  
Transmit / Receive (TX / RX) Data

### **POWER CONSUMPTION**

Idle: 1-10 ma  
Connected: 30-50 ma

### **DIMENSIONS AND WEIGHT**

AAA model RN-270  
92mm Length x 22mm Width x 31mm Height  
40g (Without AAA Batteries)  
STANDARD model RN-240  
72mm Length x 33mm Width x 23mm Height  
17g

### **TEMPERATURE RANGE**

Operating: -40°C to +70°C  
Storage: -40°C to +85°C

### **DEX SETUP AVAILABLE**

AAA model - Yes

### **DTR / CALIPER SETUP AVAILABLE**

Yes