

# PRODUCT GUIDE

Series	Rino Series				Ironlabel Series <small>*different sizes contact sales</small>			
Product	RINO	RINO L	RINO TP	RINO FS	IronLabel-P5015	IronLabel-P6025	IronLabel-P6505	IronLabel-P8025
Product Picture								
Dimensions (mm)	14 x 38 x 3.4	15 x 50 x 5.5	25 x 40 x 3	34 x 45 x 6.5	15 x 50 x 1.26	25 x 60 x 1.26	5 x 65 x 1.26	25 x 80 x 1.26
Operating Frequency	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	902-928MHz (US)	902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)
Read Range on-metal(2W ERP)	Up to 5m	Up to 8m	Up to 8m	Up to 11m	Up to 6.5m	Up to 8m	Up to 4m	Up to 12m
Read Range off-metal(2W ERP)	Up to 2m	Up to 4m	Up to 4m	Up to 5m	Up to 3m	Up to 3.5m	Up to 2m	Up to 6m
IC Type	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	NXP Ucode8	Impinj R6-P	NXP Ucode8	Impinj R6-P
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Ambient Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Protection Class	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Mounting System	Industry grade adhesive	Industry grade adhesive Cable tie	Industry grade adhesive Cable tie	Industry grade adhesive Cable tie	Industry grade adhesive	Industry grade adhesive	Industry grade adhesive	Industry grade adhesive
Order Information	RTEC1010301(EU) RTEC1010302(US)	RTEC1020301(EU) RTEC1020302(US)	RTEC3040301(EU) RTEC3040302(US)	RTEC1050602(US)	RTEC3050X02(US)	RTEC3060X01(EU) RTEC3060X02(US)	RTEC3070X02(US)	RTEC3080X01(EU) RTEC3080X02(US)

\*Read ranges indicated in this datasheet is achieved by using our standard testing methodology. Actual performance will be different if different reader hardware and output power is applied.



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### RTEC China

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# PRODUCT GUIDE

Series	Steel Series			ROD Series			Tough Series		
Product	STEELMINI	STEELCODE	STEELTRAK	ROD-MINI	ROD-LITE	ROD-MAX	PROMASS	PROMASS Micro	R-BOLT
Product Picture									
Dimensions (mm)	9 x 13.5 x 6	13 x 38 x 7.7	49.5 x 50 x 11.5	55 x 18.5 x 5.1	74 x 21 x 8.4	100 x 26 x 9.5 100 x 26 x 12	35 x 35 x 5	Φ24 x 8	DIN933 M10 x 16
Operating Frequency	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)
Read Range on-metal(2W ERP)	Up to 3m	Up to 6.5m	Up to 10m	Up to 5m	Up to 11m	Up to 16m	Up to 4m	Up to 3m	Up to 1.5m
Read Range off-metal(2W ERP)	-	-	-	Up to 2m	Up to 5.5m	Up to 7m	Up to 4m	-	-
IC Type	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Ambient Temperature	-30°C to +250°C	-30°C to +250°C	-30°C to +250°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +250°C	-30°C to +250°C	-30°C to +250°C
Protection Class	IP68	IP68	IP68	IP68	IP68	IP68	IP68	IP68	IP68
Mounting System	Industry adhesive Epoxy Resin	Rivet hole Φ3.4 mm Epoxy Resin	Rivet hole Φ5.0 mm Epoxy Resin	Rivet hole Industry adhesive	Rivet hole Industry adhesive	Rivet hole / Magnet	Rivet hole Welding	Epoxy Resin Welding	Screw in
Order Information	RTEC7010301(EU) RTEC7010302(US)	RTEC7020301(EU) RTEC7020302(US)	RTEC9030301(EU) RTEC9030302(US)	RTEC8030601(EU) RTEC8030602(US)	RTEC8020601(EU) RTEC8020602(US)	RTEC1030301(EU) RTEC1030302(US)	RTEC4020301(EU) RTEC4020302(US)	RTEC4040311(EU) RTEC4040312(US)	RTEC4010311(EU) RTEC4010312(US)

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# PRODUCT GUIDE

Series	Element Series				P-X Series		
Product	ATOM	PROTON	BOSON	SS-21	P-M	P-S	E-S
Product Picture							
Dimensions (mm)	9 x 25 x 3.2	5 x 10 x 3.2	5 x 5 x 3.2	2.1 x 2.1 x 6.8	10 x 25 x 3.8	4 x 18 x 1.8	3 x 8 x 1.9
Operating Frequency	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	902-928MHz (US)	902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)
Read Range on-metal(2W ERP)	Up to 7m	Up to 3.5m	Up to 2m	Up to 1.5m	Up to 5m	Up to 2m	Up to 0.9m
Read Range off-metal(2W ERP)	-	-	-	-	-	-	-
IC Type	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Ambient Temperature	-30°C to +150°C	-30°C to +150°C	-30°C to +150°C	-30°C to +150°C	-30°C to +150°C	-30°C to +150°C	-30°C to +150°C
Protection Class	IP68	IP68	IP68	IP68	IP68	IP68	IP68
Mounting System	Industry adhesive Epoxy Resin	Industry adhesive Epoxy Resin	Industry adhesive Epoxy Resin	Epoxy Resin	Industry adhesive Epoxy Resin	Industry adhesive Epoxy Resin	Industry adhesive Epoxy Resin
Order Information	RTEC2030301(EU) RTEC2030302(US)	RTEC2020301(EU) RTEC2020302(US)	RTEC2010301(EU) RTEC2010302(US)	RTEC2050301(EU) RTEC2050302(US)	RTECX020302(US)	RTECX010302(US)	RTECX030301(EU) RTECX030302(US)

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# PRODUCT GUIDE

Series	L-T Series					
Product	L-T7515	L-T7512	L-T7015	L-T6610	L-T5815	L-T3618
Product Picture						
Dimensions (mm)	15 x 75 x 1.5	12 x 75 x 1.5	15 x 70 x 1.5	10 x 66 x 1.5	15 x 58 x 1.5	18 x 36 x 1.5
Operating Frequency	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	866-868MHz (EU) 902-928MHz (US)	850-950MHz (Global)	866-868MHz (EU) 902-928MHz (US)
Read Range on-metal(2W ERP)	-	-	-	-	-	-
Read Range off-metal(2W ERP)	Up to 7m	Up to 5.5m	Up to 5.5m	Up to 3m	Up to 5.5m	Up to 1m
IC Type	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P	Impinj R6-P
Operating Temperature	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C	-30°C to +85°C
Ambient Temperature	-30°C to +180°C	-30°C to +180°C	-30°C to +180°C	-30°C to +180°C	-30°C to +180°C	-30°C to +180°C
Protection Class	IP68	IP68	IP68	IP68	IP68	IP68
Mounting System	L-T7515S: Sew L-T7515P: Heat-sealing	Sew	L-T7015S: Sew L-T7015P: Heat-sealing	Sew	L-T5815S: Sew L-T5815P: Heat-sealing	Sew
Order Information	RTEC L-T7515S RTEC L-T7515P	RTEC L-T7512S	RTEC L-T7015S RTEC L-T7015P	RTEC L-T6610S	RTEC L-T5815S RTEC L-T5815P	RTEC L-T3618S

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# PRODUCT GUIDE

Series	UHF RFID ANTENNA Series							
Product	RTEC ANT-SW	RTEC ANT-CR	RTEC ANT-SW PLUS	RTEC ANT-FX	RTEC ANT-FX-(0220-8)	RTEC ANT-TX-8	RTEC ANT-NF20 (Near Field)	RTEC ANT-NF2716 (Near Field)
Product Picture								
Frequency/Mhz	FCC 902-928 EU 860-875	FCC 902-928 EU 860-875	FCC 902-928 EU 860-875	FCC 902-928 EU 860-875	FCC 902-928	FCC 902-928	FCC 902-928	FCC 902-928
Gain/dBi	3	4	5	9	8	8	0	0
S.W.R	<1.3	<1.4	<1.4	<1.4	<1.3	<1.3	<1.3	<1.5
Bandwidth/Mhz *	100	15	30	40	35	35	35	35
Impedance/Ω	50	50	50	50	50	50	50	50
Polarization	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Beamwidth/°	90°	60°	60°	70°	68°	68°	-	-
Axial Ratio/Db	<2.0	<2.5	-	-	<3.0	<3.0	<3.0	<3.0
Dimension/mm	107 x 128 x 29	105 x 105 x 14.5	165 x 165 x 20	260 x 260 x 30	217 x 217 x 15	220 x 220 x 24	200 x 200 x 7	270 x 160 x 9
Attachment	Rivet hole Magnet	Rivet hole Magnet	Rivet hole Magnet	Rivet hole Magnet	Rivet hole M3	Rivet hole M3.5	Rivet hole	Rivet hole
Order Information	RTEC-A01-01(EU) RTEC-A01-02(US)	RTEC-A02-01(EU) RTEC-A02-02(US)	RTEC-A03-01(EU) RTEC-A03-02(US)	RTEC-A04-01(EU) RTEC-A04-02(US)	RTEC-A04-03(US)	RTEC-A08-02(US)	RTEC-A06-02(US)	RTEC-A07-02(US)

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# PRODUCT GUIDE

Series	UHF RFID READER Series							
Product	R2600-F Reader	R2133-F Reader	R2228-F Reader	R2445-F Reader	R3700-F Reader	R3800-F Reader	R6700-H Handheld Reader	RD-001 UHF Gate Reader
Product Picture								
Air Protocol	EPC global Class 1 Gen 2 ISO18000-6C	EPC global Class 1 Gen 2 ISO18000-6C	EPC global Class 1 Gen 2 ISO18000-6C	EPC global Class 1 Gen 2 ISO18000-6C	EPC global Class 1 Gen 2 ISO18000-6C	EPC global Class 1 Gen 2 ISO18000-6C	EPC global Class 1 Gen 2 ISO18000-6C	EPC global Class 1 Gen 2 ISO18000-6C
Frequency/MHz	902-928MHz FCC 865-868MHz ETSI	902-928MHz FCC 865-868MHz ETSI	902-928MHz FCC 865-868MHz ETSI	902-928MHz FCC 865-868MHz ETSI	902-928MHz FCC 865-868MHz ETSI	902-928MHz FCC 865-868MHz ETSI	902-928MHz FCC 865-868MHz ETSI	902-928MHz FCC 865-868MHz ETSI
Output Power/dBm	0 – 26dBm	0 – 33dBm	0 – 33dBm	0 – 33dBm	0 – 33dBm	0 – 33dBm	5 – 30dBm	0 – 33dBm
Receive Sensitivity*	-	< -85dBm	< -85dBm	< -85dBm	< -85dBm	< -85dBm	< -85dBm	< -85dBm
Reading Rate	>10 tags/s	>800 tags/s	>800 tags/s	>800 tags/s	>800 tags/s	>800 tags/s	>900 tags/s	>800 tags/s
Reader Chip	-	INDY R2000	INDY R2000	INDY R2000	INDY R2000	INDY R2000	INDY R2000	INDY R2000
Tag RSSI	-	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Host Communication	USB2.0	RS-233, TCP/IP	RS-232, TCP/IP Wiegand, RS485	RS-232, TCP/IP Wiegand, RS485	RS-233, TCP/IP	RS-233, TCP/IP	BT, WIFI, WWAN, GNSS	RS-233, TCP/IP
Antenna Port	Antenna inside	Antenna inside 4dBi (Circular)	Antenna inside 8dBi (Circular)	Antenna inside 12dBi (Circular)	4	16	Antenna inside 4dBi (Circular)	Antenna inside 8dBi (Circular)
GPIO	-	2 input optical coupling 2 output coupling	2 input optical coupling 2 output coupling	2 input optical coupling 2 output coupling	2 input optical coupling 2 output coupling	2 input optical coupling 2 output coupling	-	-
Order Information	RTEC-R2600	RTEC-R2133	RTEC-R2228	RTEC-R2445	RTEC-R3700	RTEC-R3800	RTEC-R6700	RTEC-RD-001

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