

# IQ Range - Labels

Product Name		 Prox NG	 Prox Label	 IQ 150	 IQ 400P	 IQ 800P	 IQ 600
Typical Applications		Enterprise IT data center asset management	IT data center asset management	IT, office, hospital asset tracking Weapons, pipes, road signs Tools and kitchen assets	Plastic facias's on IT equipment Identification of IT & office hardware	Plastic RTIs and containers Plastic pallets	Logistics- metal produce & packaging Pipe manufacturing & recertification IT, Office, & Hospital tracking
RF Specifications	Frequency Range (MHz)	860-930(GS)	902-928 (US) 866-868 (EU) 860-960 (GS)	902-928 (US) 866-868 (EU)	860-960 (GS)	860-960 (GS)	902-928 (US) 866-868 (EU)
	Read Range (m) - Fixed reader	1.8 +/- 25%	Up to 3.0 (US), Up to 2.0 (EU) Up to 2.5(Global)	Up to 1.5	Up to 5.0	Up to 10.0	Up to 6.0
	Read Range (m)- Handheld reader	0.9m +/-25%	Up to 1.5 (US), Up to 1.2 (EU) Up to 1.3 (Global)	Up to 0.75	Up to 2.5	Up to 5.0	Up to 3.0
	Material Compatibility	Metal a& non-metallic substrates	Metal & non-metallic substrates	Optimized for metal & liquid	Plastic and non-metal substrates	Plastic and non-metallic substrates	Optimized for metal & liquid
	IC Type	Alien Higgs 3	Alien Higgs 3	Impinj Monza R6 Option: Impinj Monza 4QT - due 11/2015	Alien Higgs 3	Alien Higgs 3	Impinj Monza R6 Option: Impinj Monza 4QT - due 11/2015
Physical and Environmental	Encasement / Material	Synthetic label	Synthetic label	Synthetic label	Synthetic label	Synthetic label	Synthetic label
	Size (mm)	37.5 x 12.5 x 4.5	35 x 10 x 4.8	60 x 12.5 x 0.9	46.5 x 12.4 x 0.3	95 x 21 x 0.3	100.0 x 24.0 x 0.9
	Weight (g)	2.2	1.9	0.25	0.15	0.5	2.0
	Operating Temperature (°C)	-5 to +55°C	+5 to +40°C	-20 to +85°C	-40 to +85°C	-40 to +85°C	-20 to +85°C
	Ingress Protection	IP54	IP54	IP68	IP68	IP68	IP68
	Shock and Vibration	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
	Attachment	Film Adhesive & tether hole (std) Std. Foam Adhesive (opt.) Premium Foam adhesive (opt.)	Film Adhesive (std.) Std. Foam Adhesive (opt.) Premium Foam adhesive (opt.)	Self Adhesive (std)	Film adhesive (std)	Film adhesive (std)	Self Adhesive (std)
	Order Codes +	031 - GS	011 - EU, US, GS	125 - EU, US Monza R6 132 - EU, US Monza 4QT-due 11/2015	055 - GS	056 - GS	133 - EU, US Monza R6 134 - EU, US Monza 4QT-due 11/2015

+ Order Option Codes are listed on the datasheets.

Values for Comparison only, please refer to Product Datasheets for full specifications.

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# Fit Range - Small for Integration

Product Name		HIGH TEMPERATURE		HIGH TEMPERATURE	HIGH TEMPERATURE	
		<b>Fit 100</b>	<b>Fit 200</b>	<b>Fit 210</b>	<b>Fit 400</b>	<b>Fit 400P</b>
<b>Typical Applications</b>		Tool tracking including very small metal tools. Medical device tracking. Embedding into equipment at point of manufacture.	Tool tracking including very small metal tools. Medical device tracking. Embedding into equipment at point of manufacture.	Tool tracking including wrenches and ratchets. Metal IT assets. Embedding into equipment at point of manufacture.	Tool tracking including metal hand tools. Metal IT assets. Embedding into equipment at point of manufacture.	Tool tracking including embedding into plastic handles or attachment to plastic tools. Embedding into equipment at point of manufacture.
<b>RF Specifications</b>	Frequency Range (MHz)	902-928 (US) 866-868 (EU)	902-928 (US) 866-868 (EU)	902-928 (US) 866-868 (EU)	902-928 (US) 866-868 (EU)	902-928 (US) 866-868 (EU)
	Fixed reader Read Range (m) Handheld reader Read Range (m)	Up to 1.1 Up to 0.5	Up to 2.5 Up to 1.25	Up to 2.0 Up to 1.0	Up to 4.0 Up to 2.0	Up to 3.5 Up to 1.75
	Material Compatibility	On Metal only	On Metal only	Optimized for Metal substrates	On Metal only	Plastic and non-metallic substrates only
	IC Type	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3
<b>Physical and Environmental Specifications</b>	Finish	Painted Black	Painted Black	Standard version Black High Temperature version Red	Painted Black	Painted Black
	Size (mm)	6.8 x 6.4 x 2.1	8.6 x 6.1 x 2.6	57.1 x 5.95 x 1.3	13.1 x 7.1 x 3.1	17.6 x 7.1 x 4.1
	Weight (g)	0.8	0.8	1.0	1.6	2.6
	STANDARD TEMPERATURE Operation Temperature (°C) Max Temperature Exposure (°C)	-20 to +70°C -20 to +70°C	-20 to +70°C -20 to +70°C	-20 to +85°C -20 to +120°C	-20 to +85°C -20 to +85°C	-20 to +85°C
	<b>HT - Operation Temperature</b> <b>HT - Max Temperature Exposure</b>	-20 to +85°C -20 to +225°C	na	-20 to +85°C -20 to +225°C	-20 to +85°C -20 to +225°C	na
	Ingress Protection	IP68	IP68	IP68	IP68	IP68
	Shock and Vibration	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
	Standard version Attachment	Film adhesive (standard) Permanent liquid adhesive (option)	Film adhesive (option) Permanent liquid adhesive (option)	Film & standard foam adhesive (option) Premium foam adhesive (option) Permanent liquid adhesive (option)	Film adhesive (option) Permanent liquid adhesive (option)	Film adhesive (option) Permanent liquid adhesive (option)
	<b>HT version Attachment</b>	Film adhesive (option for placement only) Permanent liquid adhesive (option)	na	Film adhesive (option for placement only) Permanent liquid adhesive (option)	Film adhesive (option for placement only) Permanent liquid adhesive (option)	na
	Order Codes (see datasheets for option codes)	130 - EU, US Standard Temperature version 129 - EU, US High Temperature version	050 - EU, US	041 - EU, US Standard Temperature version 123 - EU, US High Temperature version	051 - EU, US Standard Temperature version 124 - EU, US High Temperature version	052 - EU, US

# Exo Range – Encased

Product Name						
Typical Applications		Logistics & Postal Industries. Automotive. Retail & warehousing.	Weapons. Tool & Die. Industrial Assets.	Automotive Supply Chain. Logistics and Postal. Manufacturing tote tracking.	Manufacturing tote tracking. Logistics and Postal. Retail supply chain.	Plastic RTIs and containers Plastic pallets Non-metallic industrial assets
RF Specifications	Frequency Range (MHz)	860–940 (GS)	865.6–867.6 (ETSI) 915–925 (FCC)	860–930 (GS)	860–940 (GS)	860–940 (GS)
	Read Range (m) – Fixed reader Handheld reader	Up to 6.0 Up to 3.0	Up to 5.5 Up to 3.5	Up to 11 (US), 7 (EU) Up to 5 (US), 3.5 (EU)	Up to 8.0 Up to 4.0	Up to 8.0
	Material Compatibility	Optimized for Metal substrates	Optimized for Metal substrates	Optimized for Metal substrates	Optimized for Metal substrates	Optimized for plastic substrate
	IC Type	Impinj Monza 4QT	Alien Higgs 3	Impinj Monza 4QT	Impinj Monza 4QT or Alien Higgs 3	Alien Higgs 3
Physical and Environmental Specifications	Encasement	ABS Rigid Plastic	Durable Thermoplastic Material	ABS Rigid Plastic	ABS Rigid Plastic	ABS Rigid Plastic
	Size (mm)	80 × 15 × 12.2 (with holes) 60 × 15 × 12.2 (without holes)	30 × 21 × 6.35	51.0 × 48.0 × 12.6	110 × 25.0 × 12.85	105 × 36 × 3.5
	Weight (g)	12.5 (with holes) 11.5 (without holes)	75	25.6	26	11.6
	Operating Temperature	–20 to +85 (°C)	–20 to +85 (°C)	–40 to +85 (°C)	–20 to +85 (°C)	–20 to +85 (°C)
	Ingress Protection	IP68	IP68	IP68	IP68	IP68
	Shock and Vibration	MIL STD 810-F	MIL STD 810-F	MIL STD 810-F	MIL STD 810-F	MIL STD 810-G
	Attachment	Mechanical (std.)	Foam adhesive (std.)	Mechanical (std.)	Mechanical (std.)	Rivet/Screw/Adhesive
Order Codes*	061 - GS	095 - GS	078 - GS	077 - GS	104 - GS	

\* Order Option Codes are listed on the datasheets.

# Dura Range - Heavy Duty

Product Name		 <b>Dura 600</b>	 <b>Dura 1500</b>	 <b>Dura 3000</b>
Typical Applications		Maintenance for deployed field equipment. Chemical drum tracking. Beverage keg tracking.	Container tracking for yard management. Cargo tracking. Defense asset management.	Cargo and container tracking. Heavy equipment tracking and maintenance. Location identification in lay down zones.
RF Specifications	Frequency Range (MHz)	902–928 (US) 865–868 (EU)	860–960 (global)	860–960 (global)
	Read Range (m) - Fixed reader	Up to 6 (US) Up to 5 (EU)	Up to 15	Up to 35
	Material Compatibility	Optimized for Metal substrates	Optimized for Metal substrates	Metal and non-metallic substrates
	IC Type	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3
Physical and Environmental Specifications	Encasement	Durable Thermoplastic Material	ABS or Polycarbonate	ABS or Polycarbonate
	Size (mm)	48.5 x 38.0 x 9.5	140 x 66 x 14.0	210 x 110 x 21.0
	Weight (g)	11.2	82.0	292
	Operating Temperature	-40 to +85 °C	Polycarbonate : -40 to +100 °C	Polycarbonate : -40 to +100 °C
	Ingress Protection	IP68	IP68	IP68
	Shock and Vibration	MIL STD 810-F	MIL STD 810-F	MIL STD 810-F
	Attachment	Industrial Foam Tape	Manual (standard) Standard foam adhesive (option) Premium foam adhesive (option)	Manual (standard) Standard foam adhesive (option) Premium foam adhesive (option)
Order Codes	025 - US, EU	008 - GS	009 - GS	

+ Order Option Codes are listed on the datasheets.

# Adept Range - Special Purpose

				HIGH MEMORY		
Product Name		Adept 400	Adept 500		Adept 850	Adept 360°
Typical Applications		Piping Valves Processing Equipment	Gas Cylinders Beverage Kegs		Manufacturing & Supply Chain Automotive Outdoor & Industrial Operations	Very heavy industry applications. Identification of lifting equipment for maintenance and inventory management.
RF Specifications	Frequency Range (MHz)	866-868 (EU) 902-928 (US)	860-940 (GS)		860-960 (GS)	860-930MHz (GS) 13.56MHz (HF opt.)
	Read Range (m) Fixed reader	Up to 3 (EU) Up to 4.5 (US)	Up to 5.0		Up to 8.5 Up to 4	Up to 10 (UHF) Up to 0.1 (HF opt.)
	Material Compatibility	Optimized for Metal	Optimized for Metal		Optimized for Metal	Metal and non-metallic substrates
	IC Type	Alien Higgs 3	Alien Higgs 3		Qstar-2A	Alien H3 (UHF) NXP I-Code (HF opt.)
Physical and Environmental Specifications	Encasement	Stainless Steel	Durable Thermoplastic		ABS	Steel frame
	Size (mm)	36 x 25 x 13.5	37 x 37 x 11.5		65 x 45 x 8	136.5 x 48 x 5.5
	Weight (g)	58	9.8		34	126.0
	Operating Temperature	-20 to +85°C	-20 to +65°C		-20 to +85°C	-40 to +85°C
	Ingress Protection	IP68	IP68		IP68	IP68
	Shock and Vibration	MIL STD 810-F	MIL STD 810-F		MIL STD 810-G	MIL STD 810-F
	Attachment	Steel strapping or welding Low profile version - epoxy or welded	Standard Adhesive		Rivet/screw (not included) Foam or thin film Adhesive( option)	Tether attachment (not included)
Order Codes +	080 - US, EU	045 - GS		114 - GS	032 - GS	

+ Order Option Codes are listed on the datasheets.

# View Range - Display Tags

Products	 <b>View 3</b>	 <b>View 4</b>	 <b>View 10</b>
<b>Typical Applications</b>	<b>Manufacturing:</b> Replenishment, work instructions & container management <b>Health Care:</b> Equipment Tracking and directional labeling <b>IT:</b> Asset Tracking and status <b>Logistics:</b> Container Management Sortation/Postal Warehousing/Yard Management Food Supply Chain	<b>Manufacturing:</b> Replenishment, work instructions & container management <b>Health Care:</b> Equipment Tracking and directional labeling <b>IT:</b> Asset Tracking and status <b>Logistics:</b> Container Management Sortation/Postal Warehousing/Yard Management Food Supply Chain	<b>Manufacturing &amp; Healthcare:</b> Work instructions <b>Maintenance:</b> Repair manuals <b>Logistics:</b> Manifests and pick lists <b>Quality:</b> Reports and forms <b>Operations:</b> Productivity graphs & reports
Screen	Electrophoretic e-paper display Full graphic (black & white), 120° viewing angle (in sunlight)	Electrophoretic e-paper display Full graphic (black & white), 120° viewing angle (in sunlight)	Electrophoretic e-paper display Full graphic (black & white)
Size (mm) (in)	146.5 x 50 x 14.1 5.77 x 1.97 x 0.56	148.5 x 102.5 x 13.9 5.85 x 4.04 x .55	263 x 205 x 13 (+6mm each dimension for bumper) 10.35 x 8.07 x 0.5 (+.23" each dimension for bumper)
Diagonal Viewable Area (in)	2.9	4.2	10.2
User Memory	16 image pages	16 image pages	up to 255 image pages
Battery life <sup>1</sup>	Up to 3 yrs	Up to 5 yrs	Rechargeable battery (Less than 5 hours to recharge from a no charge state)
Passive Read Range*: Passive Write Range	Up to 5m on and off metal Up to 3m on and off metal	Up to 5m on and off metal Up to 3m on and off metal	Similar range of a hand held WiFi device (iPad, Android)
Active Read & Write Range	80m on metal 100m off metal	80m on metal 100m off metal	Similar range of a hand held WiFi device (iPad, Android)
IC Type (chip)	MonzaX-2K	MonzaX-2K	MonzaX-2K
Operating Temperature (°C)	0 to +50 °C	0 to +50°C	0 to +50°C
Attachment	Adhesive, Bracket, or Zip tie	Adhesive, Bracket, or Zip tie	Adhesive or Bracket
Order Codes+	OMNI-V3 (US, EU)	OMNI-V4 (US, EU)	OMNI-V10

<sup>1</sup> Actual battery life could be greater depending on configuration and use. \* Indoor installation typical power settings shown. Optimal environments can significantly enhance performance.

# Power Range - Active tags

<b>Product Name</b>		 <b>Power 50</b>	 <b>Power 415</b>
<b>Typical Applications</b>		Container tracking for Yard management Cargo tracking Defense asset management	<b>Manufacturing:</b> Mobile carts, containers and trolleys <b>Logistics:</b> Lay down yards, vehicles and docks <b>Construction:</b> Staging and materials tagging
<b>RF Specifications</b>	Frequency Range (MHz)	866-868 (EU) 902-928 (US)	Active 433 Passive 860 - 930
	Typical Read Range (m) <sup>1</sup>	Up to 50m (BAP mode) Up to 7m (Passive mode)	Active Up to 400m Passive 3-6m
	Battery Life	Up to 5 years <sup>2</sup>	Up to 5 years <sup>3</sup>
	Material Compatibility	Balanced on and off metal	Optimized for metal and non-metal substrates
	IC Type	EM 4325	Active IEEE 802.15.4 Passive Monza® X-2K
<b>Physical and Environmental Specifications</b>	Encasement	Polycarbonate	Polycarbonate Interior with overmolded TPE
	Size (mm)	139 x 66 x 14	120 x 36 x 30
	Weight (g)	87	92
	Operating Temperature	-20°C to +60°C	-40°C to +60°C
	IP Rating	IP68 Nema PW12 (High pressure liquids immersion)	IP68 Nema PW12 (High pressure liquids immersion)
	Shock and Vibration	IK07 4' drop to concrete MIL STD 810-F	IK07 4' drop to concrete MIL STD 810-F
	Attachment	Manual (std) Thin film adhesive (option) Standard or Premium foam adhesive (option) Rivets, screws, strap, not provided	Screw attachment -(2) #8 screws 5mm (0.2") Cable tie slots each end
Order Codes +	OMNI-P50 (EU, US)	OMNI-P415 OMNI-P415-X (ATEX/IECEx Certification)	

+ Order Option Codes are listed on the datasheets.

\* Read Distance can vary based on site characteristics, base station antenna type, height distance and tag configuration.