TECHNICAL DATASHEET

EXTRONICS

iTAG 500

A huge range of intrinsically safe passive UHF RFID tags for industrial applications and hazardous areas

Use with any type of passive UHF RFID reader, including both handheld and fixed

ATEX and IECEx Zones 0, 1, 2, 20, 21, 22, and M1 mining certified

US & Canada Class I Division 1 certified

Broadband operating range for worldwide use	Extremely rugged and highly durable tag construction
Lightweight and available in a variety of sizes	Created in partnership with leading tag vendor Omni-ID
Excellent read signal on, off, and near metals and liquids	Specialised options available to suit your application

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X120484(3)

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EXO RANGE

Encased tags for maximum ruggedness

	Exo 600	Exo 750	Exo 800P Rigid
Typical applications	Logistics & postal Automotive Retail & warehousing	Automotive supply chain Logistics & postal Manufacturing tote	Plastic RTIs/containers Plastic pallets Non-metallic assets
Frequency range	860–930 MHz (global)	860–930 MHz (global)	860–940 MHz (global)
Fixed reader read range Handheld reader read range	Up to 6m Up to 3m	Up to 7m (EU) 11m (US) Up to 3.5m (EU 5m (US)	Up to 8m
Material compatibility	Optimised for metal	Optimised for metal	Optimised for plastics
IC type	Monza 4QT	Monza 4QT	Alien Higgs 3
Encasement	ABS rigid plastic	ABS rigid plastic	ABS rigid plastic
Dimensions	80 x 15 x 12.5 mm	51 x 48 x 12.6 mm	105 × 36 × 3.5 mm
Weight	12.5 g	25.6 g	11.6 g
Operating temperature Exposure temperature	-40°C to +85°C -40°C to +85°C	-40°C to +85°C -40°C to +85°C	-20°C to +85°C -20°C to +85°C
Ingress protection	IP68	IP68	IP68
Shock and vibration	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
Attachment	Mechanical (std.)	Mechanical (std.)	Mechanical (std.)
Hazardous area certification	For ATEX/IEC & MET Hazardous Area certification refer to Table 1 For ATEX/IEC & MET RF Power and Operating Temperature Ranges refer to Table 2 For more detailed information, refer to the Safety Manual - Omni-ID UHF Tags (X125209)		
Minimum order quantity	100	100	100

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EXO RANGE

Encased tags for maximum ruggedness

These three larger variants are for fixed applications only and are not suitable for use on handheld items.

	Exo 800	Exo 2000	Exo 3000
Typical applications	Manufacturing tote Logistics & postal Retail supply chain	Container yards Cargo tracking Defence assets	Cargo & containers Heavy equipment Lay down areas
Frequency range	860–930 MHz (global)	860–930 MHz (global)	860–930 MHz (global)
Fixed reader read range Handheld reader read range	Up to 8m Up to 4m	Up to 20m Up to 9m	Up to 33m Up to 20m
Material compatibility	Optimised for metal	Optimised for metal	Optimised for metal
IC type	Monza 4QT	Monza 4QT	Monza 4QT
Encasement	ABS rigid plastic	PC ABS blend	PC ABS blend
Dimensions	110 x 25 x 12.9 mm	139 x 53 x 14.9 mm	174 x 70 x 17.8 mm
Weight	26 g	64 g	85 g
Operating temperature Exposure temperature	-40°C to +85°C -40°C to +85°C	-40°C to +85°C -40°C to +100°C	-40°C to +85°C -40°C to +100°C
Ingress protection	IP68	IP68	IP68
Shock and vibration	MIL STD 810-G	MIL STD 810-G	MIL STD 810-G
Attachment	Mechanical (std.)	Mechanical (std.) Premium foam (opt.)	Mechanical (std.) Premium foam (opt.)
Hazardous area certification	For ATEX/IEC & MET Hazardous Area certification refer to Table 1 For ATEX/IEC & MET RF Power and Operating Temperature Ranges refer to Table 2 For more detailed information, refer to the Safety Manual - Omni-ID UHF Tags (X125209)		
Minimum order quantity	100	100	100

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IQ RANGE

Low profile, printable label tags

	IQ 350	**IQ 400P**
Typical applications	IT, office, hospital and laboratory asset tracking and logistics involving metallic packaging	Plastic fascias on IT equipment IT/office equipment identification
Frequency range	902–928 MHz (US) 866–868 MHz (EU)	860–960 MHz (global)
Fixed reader read range Handheld reader read range	Up to 3.8m Up to 2.0m	Up to 5m Up to 2.5m
Material compatibility	Optimised for all metals	Plastic & non-metal substrates only
IC type	Impinj-M730	Impinj-M730
Encasement	Synthetic label	Synthetic label
Dimensions	50 × 12.5 × 1.30 mm	46.5 × 12.4 × 0.24 mm
Weight	0.50 g	0.15 g
Operating temperature Exposure temperature	-40°C to +85°C -40°C to +85°C	-40°C to +85°C -40°C to +85°C
Ingress protection	IP68	IP68
Shock and vibration	MIL STD 810-G	MIL STD 810-G
Attachment	Self-Adhesive (std)	Self-Adhesive (std)
Hazardous area certification	For ATEX/IEC & MET Hazardous Area certification refer to Table 1 For ATEX/IEC & MET RF Power and Operating Temperature Ranges refer to Table 2 For more detailed information, refer to the Safety Manual - Omni-ID UHF Tags (X125209)	
Minimum order quantity	900	1000

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IQ RANGE

Low profile, printable label tags

	IQ 600R6P	IQ 800P
Typical applications	Logistics for metal produce or packaging, pipe manufacturing and re-certification. IT, office assets tracking applications	Plastic RTIs and containers Plastic pallets
Frequency range	902–928 MHz (US) 866–868 MHz (EU)	860–960 MHz (global)
Fixed reader read range Handheld reader read range	Up to 6m Up to 3m	Up to 15m Up to 5m
Material compatibility	Optimised for all materials	Plastic & non-metal substrates only
IC type	Impinj-M730	Impinj-M730
Encasement	Synthetic label	Synthetic label
Dimensions	96.0 × 24.0 × 1.3 mm	95 × 21 × 0.24 mm
Weight	2 g	0.5 g
Operating temperature Exposure temperature	-40°C to +85°C -40°C to +85°C	-40°C to +85°C -40°C to +85°C
Ingress protection	IP68	IP68
Shock and vibration	MIL STD 810-G	MIL STD 810-G
Attachment	Self-Adhesive (std)	Self-Adhesive (std)
Hazardous area certification	For ATEX/IEC & MET Hazardous Area certification refer to Table 1 For ATEX/IEC & MET RF Power and Operating Temperature Ranges refer to Table 2 For more detailed information, refer to the Safety Manual - Omni-ID UHF Tags (X125209)	
Minimum order quantity	500	1000

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IQ RANGE

Low profile, printable label tags

IQ 1200P

Typical applications	RTIs and containers, Pipes and pallets, Industrial assets
Frequency range	902-928 MHz (US) 866-868 MHz (EU)
Fixed reader read range Handheld reader read range	Up to 12m Up to 6m
Material compatibility	Optimised for all materials
IC type	Monza R6-P
Encasement	Synthetic Label
Dimensions	96.0 x 24.0 x 1.3 mm
Weight	3g
Operating temperature Exposure temperature	-40°C to +85°C -40°C to +85°C
Ingress protection	IP68
Shock and vibration	MILSTD 810-G
Attachment	Cable ties or bands
Hazardous area certification	For ATEX/IEC & MET Hazardous Area certification refer to Table 1 For ATEX/IEC & MET RF Power and Operating Temperature Ranges refer to Table 2 For more detailed information, refer to the Safety Manual - Omni-ID UHF Tags (X125209)
Minimum order quantity	500

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FIT RANGE

Small, low-profile, and embeddable tags

	Fit 210	**Fit 220**	**Fit 400**
Typical applications	Tool tracking Metal IT assets Manufacturing embed	Metal tool tracking Medical device tracking Manufacturing embed	Tool tracking Metal IT assets Manufacturing embed
Frequency range	902–928 MHz (US) 866–868 MHz (EU)	902–928 MHz (US) 866–868 MHz (EU)	902–928 MHz (US) 866–868 MHz (EU)
Fixed reader read range Handheld reader read range	Up to 2m Up to 1m	Up to 2.2m Up to 1.4m	Up to 4m Up to 2m
Material compatibility	Optimised for metal substrates	Optimised for Metal	Optimised for Metal
IC type	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3
Encasement	Red PCB	Ceramic - Painted black	Ceramic - Painted black
Dimensions	57.1 x 5.95 x 1.3 mm	7.8 x 6.8 x 2.7 mm including IC bump	13.1 x 7.8 x 3.1 mm including IC bump
Weight	1.0 g	0.6 g	1.5 g
Operating temperature Exposure temperature	-20°C to +85°C -20°C to +225°C	-20°C to +85°C -20°C to +235°C	-20°C to +85°C -20°C to +235°C
Ingress protection	IP68	IP68	IP68
Shock and vibration		MIL STD 810-G	MIL STD 810-G
Attachment	Film adhesive (std.)	Film adhesive (std.)	Film adhesive (std.)
	To aid placement only, in applications exceeding +85°C, for all three variants		
Hazardous area certification	For ATEX/IEC & MET Hazardous Area certification refer to Table 1 For ATEX/IEC & MET RF Power and Operating Temperature Ranges refer to Table 2 For more detailed information, refer to the Safety Manual - Omni-ID UHF Tags (X125209)		
Minimum order quantity	100	100	100

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ADEPT RANGE

Special purpose tags, designed for particular applications

	Adept 400	Adept 500	Adept 360°
Typical applications	Easy strap attachment Piping & valves High impact	Gas cylinders Beverage kegs	Heavy industry applications Slings, Shackles & Heavy machinery
Frequency range	860–930 MHz (global)	860–960 MHz (global)	860–930 MHz (dual band)
Fixed reader read range Handheld reader read range	Up to 4m Up to 2m	Up to 5m Up to 5m	Up to 10m Up to 5m
Material compatibility	Optimised for metal	Optimised for metal	Metal and non-metallic substrates
IC type	Monza 4QT	Monza R6-P	Alien Higgs 3
Encasement	Stainless Steel with ceramic core	Durable thermoplastic	Steel frame
Dimensions	45 × 30.5 × 15.5 mm	37 x 37 x 11.5 mm	136.5 x 48 x 5.5 mm
Weight	94 g	9.8 g	126 g
Operating temperature Exposure temperature	-20°C to +65°C -20°C to +65°C	-20°C to +65°C -20°C to +65°C	-20°C to +85°C -20°C to +85°C
Ingress protection	IP68	IP68	IP68
Shock and vibration	MIL STD 810-G	MIL STD 810-F	MIL STD 810-F
Attachment	Steel strapping, welding, or epoxy	Adhesive (standard)	Tether hole
Hazardous area certification	For ATEX/IEC & MET Hazardous Area certification refer to Table 1 For ATEX/IEC & MET RF Power and Operating Temperature Ranges refer to Table 2 For more detailed information, refer to the Safety Manual - Omni-ID UHF Tags (X125209)		
Minimum order quantity	1000 if out of stock, otherwise 100	1000 if out of stock, otherwise 100	1000 if out of stock, otherwise 100

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IQ: PROX RANGE

Low profile label tags

Prox NG

	Prox NG
Typical applications	Enterprise IT datacentre assets
Frequency range	860–930 MHz (dual band)
Fixed reader read range Handheld reader	Up to 4m Up to 2.5m
Material compatibility	Metal and non-metallic substrates
IC type	Impinj-M730
Encasement	Synthetic label
Dimensions	37.5 x 12.5 x 4.5 mm
Weight	2.2 g
Operating temperature Exposure temperature	-5°C to +55°C -5°C to +55°C
Ingress protection	IP54
Shock and vibration	MIL STD 810-F
Attachment	Film adhesive & tether hole (std) Std./Premium foam adhesive (opt.)
Hazardous area certification	For ATEX/IEC & MET Hazardous Area certification refer to Table 1 For ATEX/IEC & MET RF Power and Operating Temperature Ranges refer to Table 2 For more detailed information, refer to the Safety Manual - Omni-ID UHF Tags (X125209)
Minimum order quantity	1000 (product to be replaced, limited availability)

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PRODUCT MARKING INFORMATION ATEX/IECEX & MET

Range	Extronics Part Number	Varient Type (Z)	Enclosure Type (Y)	Electrostatic charging hazard (X)	ATEX / IEC	Gas Groups Non Fixed Installation Zone & Division Rating	MET Markings Gas Groups Fixed Installation (notes 1 and 2) Zone & Division Rating	Dust Groups Zone & Division Rating
IQ	ITAG500IQ600R6P	F	L	3	II 2G Ex ia IIB Gb II 2D Ex ia IIIC Db	Class I Zone 1 AEx ia IIB Gb Class I Div 2 Groups C, D Ex ia IIB Gb		Zone 22 AEx ia IIIB Dc[3] Class II Div 2 Groups F, G[3] Ex ia IIIB Dc
	ITAG500IQ350 ITAG500IQ400P ITAG500IQ800P	F	L	2	II 2G Ex ia IIC Gb II 2D Ex ia IIIC Db	Class I Zone 1 AEx ia IIC Gb Class I Div 2 Groups A, B, C, D Ex ia IIC Gb		Zone 22 AEx ia IIIB Dc[3] Class II Div 2 Groups F, G[3] Ex ia IIIB Dc
	ITAG500IQ1200P	F	L	5	II 2G Ex ia IIB Gb II 2D Ex ia IIIC Db	Class I Zone 1 AEx ia IIB Gb Class I Div 2 Groups C, D EX ia IIB Gb		Zone 22 AEx ia IIIB Dc[3] Class II Div 2 Groups F, G[3] Ex ia IIIB Dc
EXO	ITAG500EXO600	F	E	2	I M1 Ex ia I Ma II 1G Ex ia IIB Ga II 2G Ex ia IIC Gb II 2D Ex ia IIIC Db (Note 1)	Class I Zone 0 AEx ia IIB Ga Class I Zone 1 AEx ia IIC Gb Class I Div 1 Groups C, D Class I Div 2 Groups A, B, C, D Ex ia IIB Ga Ex ia IIC Gb	Class I Zone 0 AEx ia IIC Ga Class I Div 1 Groups A, B, C, D Ex ia IIC Ga"	
	ITAG500EXO800	F	E	4	I M1 Ex ia I Ma II 1G Ex ia IIA Ga II 2G Ex ia IIB Gb II 2D Ex ia IIIC Db (Note 1)	Class I Zone 0 AEx ia IIA Ga Class I Zone 1 AEx ia IIB Gb Class I Div 1 Groups D Class I Div 2 Groups C, D Ex ia IIA Ga Ex ia IIB Gb	Class I Zone 0 AEx ia IIC Ga Class I Div 1 Groups A, B, C, D Ex ia IIC Ga	Zone 22 AEx ia IIIB Dc[3] Class II Div 2 Groups F, G[2] Ex ia IIIB Dc
	ITAG500EXO750	F	E	3	I M1 Ex ia I Ma II 1G Ex ia IIB Ga II 2D Ex ia IIIC Db (Note 1)	Class I Zone 0 AEx ia IIB Ga Class I Div 1 Groups C, D Ex ia IIB Ga	Class I Zone 0 AEx ia IIC Ga Class I Div 1 Groups A, B, C, D Ex ia IIC Ga	Zone 22 AEx ia IIIB Dc[3] Class II Div 2 Groups F, G[2] Ex ia IIIB Dc
	ITAG500EXO800PRIGID	R	E	4	I M1 Ex ia I Ma II 1G Ex ia IIA Ga II 2G Ex ia IIB Gb II 2D Ex ia IIIC Db (Note 1)	Class I Zone 0 AEx ia IIA Ga Class I Zone 1 AEx ia IIB Gb Class I Div 1 Groups D Class I Div 2 Groups C, D Ex ia IIA Ga Ex ia IIB Gb	Class I Zone 0 AEx ia IIC Ga Class I Division 1 Groups A, B, C, D Ex ia IIC Ga	Zone 22 AEx ia IIIB Dc[3] Class II Division 2 Groups F, G[3] Ex ia IIIB Dc
	ITAG500EXO2000	R	E	5	I M1 Ex ia I Ma II 2G Ex ia IIB Gb II 2D Ex ia IIIC Db (Note 1)	Class I Zone 1 AEx ia IIB Gb Class I Division 2 Groups C, D Ex ia IIB Gb	Class I Zone 0 AEx ia IIC Ga Class I Division 1 Groups A, B, C, D Ex ia IIC Ga	Zone 22 AEx ia IIIB Dc[3] Class II Division 2 Groups F, G[3] Ex ia IIIB Dc
	ITAG500EXO3000	R	E	6	I M1 Ex ia I Ma II 1G Ex ia IIC Ga II 2D Ex ia IIIC Db (Note 2)		Class I Zone 0 AEx ia IIC Ga Class I Division 1 Groups A, B, C, D Ex ia IIC Ga"	Zone 22 AEx ia IIIB Dc[3] Class II Division 2 Groups F, G[3] Ex ia IIIB Dc

PRODUCT MARKING INFORMATION ATEX/IECEX & MET

Range	Extronics Part Number	Varient Type (Z)	Enclosure Type (Y)	Electrostatic charging hazard (X)	ATEX / IEC	Gas Groups Non Fixed Installation Zone & Division Rating	MET Markings Gas Groups Fixed Installation (notes 1 and 2) Zone & Division Rating	Dust Groups Zone & Division Rating
Fit	ITAG500FIT210AI	R	P	1	I M1 Ex ia I Ma II 1G Ex ia IIC Ga II 2D Ex ia IIIC Db	Class I Zone 0 AEx ia IIC Ga Class I Division 1 Groups A, B, C, D Ex ia IIC Ga		Zone 22 AEx ia IIIB Dc Class II Division 2 Groups F, G Ex ia IIIB Dc
	ITAG500FIT220AI ITAG500FIT400	C	P	1	I M1 Ex ia I Ma II 1G Ex ia IIC Ga II 2D Ex ia IIIC Db	Class I Zone 0 AEx ia IIC Ga Class I Division 1 Groups A, B, C, D Ex ia IIC Ga		Zone 22 AEx ia IIIB Dc Class II Division 2 Groups F, G Ex ia IIIB Dc
Adept	ITAG500ADEPT400	C	M	2	I M1 Ex ia I Ma II 1G Ex ia IIB Ga II 2G Ex ia IIC Gb II 2D Ex ia IIIC Db (Note 1)	Class I Zone 0 AEx ia IIB Ga Class I Zone 1 AEx ia IIC Gb Class I Division 1 Groups C, D Class I Division 2 Groups A, B, C, D Ex ia IIB Ga Ex ia IIC Gb	Class I Zone 0 AEx ia IIC Ga Class I Division 1 Groups A, B, C, D Ex ia IIC Ga	Zone 22 AEx ia IIIB Dc3 Class II Division 2 Groups F, G[3] Ex ia IIIB Dc
	ITAG500ADEPT500	R	E	2	I M1 Ex ia I Ma II 1G Ex ia IIB Ga II 2G Ex ia IIC Gb II 2D Ex ia IIIC Db (Note 1)	Class I Zone 0 AEx ia IIB Ga Class I Zone 1 AEx ia IIC Gb Class I Division 1 Groups C, D Class I Division 2 Groups A, B, C, D Ex ia IIB Ga Ex ia IIC Gb	Class I Zone 0 AEx ia IIC Ga Class I Division 1 Groups A, B, C, D Ex ia IIC Ga"	Zone 22 AEx ia IIIB Dc[3] Class II Division 2 Groups F, G[3] Ex ia IIIB Dc"
	ITAG500ADEPT360	R	M	2	I M1 Ex ia I Ma II 1G Ex ia IIB Ga II 2G Ex ia IIC Gb II 2D Ex ia IIIC Db (Note 1)	Class I Zone 0 AEx ia IIB Ga Class I Zone 1 AEx ia IIC Gb Class I Division 1 Groups C, D Class I Division 2 Groups A, B, C, D Ex ia IIB Ga Ex ia IIC Gb	Class I Zone 0 AEx ia IIC Ga Class I Division 1 Groups A, B, C, D Ex ia IIC Ga	Zone 22 AEx ia IIIB Dc[3] Class II Division 2 Groups F, G[3] Ex ia IIIB Dc
Prox	ITAG500PROXNG	F	L	2	II 2G Ex ia IIC Gb II 2D Ex ia IIIC Db	Class I Zone 1 AEx ia IIC Gb Class I Division 2 Groups A, B, C, D Ex ia IIC Gb		Zone 22 AEx ia IIIB Dc[3] Class II Division 2 Groups F, G[3] Ex ia IIIB Dc"

Note 1: Additional to the marked Group, Class 1 Division 1 Groups A,B,C,D and Class I Zone 0 AEx ia IIC Ga & II 1G Ex ia IIC Ga are permitted for fixed installations only. This marking will not be present on the equipment. Under these conditions there may be a potential electrostatic charging hazard. The equipment is not to be mounted in a high airflow or dust laden atmosphere and should only be cleaned with a damp cloth.

Note 2: METS -F-L-X tags consist of a label covering a metallic foil which could contain Aluminium and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction.
ATEX/IEC: X=6. For use in fixed applications only. Under these conditions there may be a potential electrostatic charging hazard. The equipment is not to be mounted in a high airflow dust laden atmosphere and should only be cleaned with a damp cloth.

Note 3: Must not be used in portable application when in proximity of a prolific charge generating mechanism (such as might occur in pneumatic transfer of powders or charge spraying in a powder coating process). In fixed installations, there may be a potential electrostatic charging hazard. The equipment is not to be mounted in a high airflow or dust laden atmosphere and should only be cleaned with a damp cloth. If clarification is required, contact manufacturer.

(A fixed installation is defined as an installation where the tag, or the asset the tag is attached to does not move in normal operation, e.g. if the tag is installed on a handheld tool the tag is not a fixed installation.)

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RF POWER AND OPERATING TEMPERATURE RANGES

Variant	iTAG500 Range		ATEX / IEC METs T amb (°C)	T6W Group IIC T6 Group IIIB T85C	T5 & Group I (W) Group IIC T5 Group IIIB T100C	T4 W Group IIC T6 Group IIIB T135C
R	EXO2000		40	0.25	0.66	1.5
	EXO3000		50	0.18	0.59	1.5
	FIT 210		60	0.12	0.53	1.5
	ADEPT360		70	0.06	0.47	1.5
	Adept 500		80	N/A	0.4	1.5
F	PROXNG	EXO600	40	0.13	0.36	0.79
	IQ400P	EXO750	50	0.1	0.32	0.75
	IQ350	EXO800	60	0.06	0.29	0.72
	IQ600R6P	IQ1200P	70	0.03	0.25	0.68
	IQ800P	EXO800PRIGID	80	N/A	0.22	0.62
C			40	0.19	0.50	1.10
	FIT220		50	0.14	0.45	1.05
	FIT400		60	0.09	0.40	1.00
	ADEPT 400 (5 Layer)		70	0.04	0.35	0.95
			80	N/A	0.31	0.90

NOTE:

For R, F & C variants the maximum RF power output from the tag reader to its antenna must not be exceeded

The table show:
The maximum allowable RF power from the reader to its aerial
For a given temperature class and ambient temperature range

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