

Specification Sheet

RFID Labels

For use with Zebra RXi4, ZT410R, ZT420R, ZE500R, ZD500R, ZQ520R and ZT600 Series printers. Silverline labels are only recommended for use with the ZT410 Silverline printer.

General purpose RFID labels for use with Zebra UHF printers

Zebra's general-purpose RFID labels are for most non-metallic surfaces, such as plastic and corrugated boxes. Typical applications include labelling of boxes, pallet, products and healthcare samples. Zebra's RFID labels have been tested and optimised to work with Zebra's RFID printers and readers. Due to the many variables that can affect read range, we always recommend testing in application to ensure suitability. These labels should be printed with 2300 wax, or 3200 wax/resin ribbons.

Advanced RFID labels for use with Zebra UHF printers

Zebra's advanced RFID labels can be used in similar applications to the general-purpose labels, but provide a higher level of read-performance. Typical applications include box, pallet and product labelling, where longer read-range is required. Zebra's RFID labels have been tested and optimised to work with Zebra's RFID printers and readers. Due to the many variables that can affect read range, we always recommend testing in application to ensure suitability. These labels should be printed with 2300 wax, or 3200 wax/resin ribbons.







RFID Labels for use with Zebra Silverline RFID ZT410 Printer

Thermal transfer printable white RFID labels with a high-performance acrylic adhesive optimised for use on metal and painted metal surfaces. These flexible "label-like" tags offer excellent durability across a range of operating temperatures, as well as resistance to water & chemicals. Their durability, versatile all-surface application properties and readable range of up to 6 metres makes them suitable for a wide range of demanding applications. Typical uses include the tagging of IT equipment, medical equipment, firearms, high value tools, industrial equipment and returnable shipping containers. Should be printed with Zebra 5095 Resin ribbon.



Inlay Specification





(General purpose and advanced RFID labels for use with Zebra UHF printers)

Inlay (mm)	Integrated circuit/ Memory	Material	Use	Printer	Part Number	Label Size (mm)	
Belt (70 x 14) 	Monza 5 128bit EPC	Z-Perform 1500T (Recommended Ribbon: 2300)	General purpose	Mid-Range	10015350	73 x 17	
				Desktop	10018352	73 x 17	
				Mobile	N/A		
DogBone (86 x 24) 	Monza 4D 128bit EPC plus 32bit	Z-Perform 1500T (Recommended Ribbon: 2300)	Advanced	Mid-Range	10015351	97 x 27	
				Desktop	10018353	97 x 27	
				Mobile	N/A		
Short Dipole (93 x 11) 	Monza 4D 128bit EPC plus 32bit	Z-Perform 1500T (Recommended Ribbon: 2300)	General purpose	Mid-Range	10015352	97 x 15	
				Desktop	10018354	97 x 15	
				Mobile	N/A		
AD237 (70 x 15) 	Monza r6-P 128bit EPC plus 32bit	Z-Perform 1500T (Recommended Ribbon: 2300)	General purpose	Mid-Range	10026447	76 x 25	
					10026446	76 x 127	
				Desktop	10026454	76 x 25	
					10026453	76 x 127	
				Mobile	N/A		
ALN9740 (86 x 8) 	Higgs 4 128bit EPC plus 32bit	Z-Perform 1500T (Recommended Ribbon: 2300)	General purpose	Mid-Range	10027037	102 x 51	
					10026445	102 x 76	
					10027136	102 x 152	
				Desktop	10027039	102 x 51	
		10026452			102 x 76		
		10027038			102 x 152		
		Advanced		Z-Perform 2000D	Mobile	10027809	102 x 51
						10027808	102 x 152
ALN9762 (70 x 17) 	Higgs 4 128bit EPC plus 32bit	PolyPro 4000D	Advanced	Mid-Range	N/A		
				Desktop	N/A		
				Mobile	10027810	76 x 25.4	

*For pricing and quantity details, please refer to the [RFID Price list](#)

Inlay Specification

(RFID Labels for use with Zebra Silverline RFID ZT410 Printer)

Inlay (mm)	Integrated circuit/ Memory	Material	Printer	Part Number	Label Size (mm)
Silverline Classic (100 x 40) 	Monza 4QT 128bit EPC	Gloss White Polyester (Recommended Ribbon: 5095 Resin)	Mid-Range	10025343	100 x 40
			Desktop	N/A	
			Mobile	N/A	
NEW Silverline Classic M4i (100 x 40) Global Frequency	Monza 4i 256bit EPC plus 480bit	Gloss White Polyester (Recommended Ribbon: 5095 Resin)	Mid-Range	10027757	100 x 40
			Desktop	N/A	
			Mobile	N/A	
Silverline Slim (110 x 13) 	Monza 4Q 128bit EPC	Gloss White Polyester (Recommended Ribbon: 5095 Resin)	Mid-Range	10025344	110 x 13
			Desktop	N/A	
			Mobile	N/A	
NEW Silverline Slim M4i (100 x 13) Global Frequency	Monza 4i 256bit EPC plus 480bit	Gloss White Polyester (Recommended Ribbon: 5095 Resin)	Mid-Range	10027756	100 x 13
			Desktop	N/A	
			Mobile	N/A	
NEW Silverline Micro M4i (45 x 13) Global Frequency 	Monza 4i 256bit EPC plus 480bit	Gloss White Polyester (Recommended Ribbon: 5095 Resin)	Mid-Range	10027755	45 x 13
			Desktop	N/A	
			Mobile	N/A	
Silverline Blade (60 x 25) 	Monza R6 96bit EPC	Matt White Polypropylene (Recommended Ribbon: 5095 Resin)	Mid-Range	10028598	60 x 25
			Desktop	N/A	
			Mobile	N/A	

***For pricing and quantity details, please refer to the RFID Price list**

Z-Perform 1500T

Material Construction:

	Description	Caliper
Facestock	White smooth topcoated paper	66 Microns
Adhesive	Permanent acrylic-based	15 Microns
Liner	40 lb. Kraft stock	61 Microns
		Total: 142 Microns +/- 10%

Temperature Performance:

Minimum Application Temperature: -4° C

Service Temperature: -18° C to 82° C

Storage Conditions: 22° C at 50% RH

Expected Exterior Life: Not recommended for outdoor use

Z-Perform 2000D

Material Construction:

	Description	Caliper
Facestock	White smooth Topcoated paper	76 Microns
Adhesive	All-temp acrylic-based	13 Microns
Liner		64 Microns
		Total: 153 Microns +/- 10%

Temperature Performance:

Minimum Application Temperature: -40° C

Service Temperature: -54° C to 55° C

Storage Conditions: 22° C at 50% RH

Expected Exterior Life: Not recommended for outdoor use

PolyPro 4000D

Material Construction:

	Description	Caliper
Facestock	Direct Thermal Polypropylene	71 Microns
Adhesive	General purpose permanent	20 Microns
Liner		64 Microns
		Total: 155 Microns +/- 10%

Temperature Performance:

Minimum Application Temperature: -40° C

Service Temperature: -54° C to 55° C

Storage Conditions: 22° C at 50% RH

Expected Exterior Life: Not recommended for outdoor use

Gloss White Polyester (Silverline Classic, Slim, Micro)

Material Construction:

	Description	Caliper
Facestock	Thermal transfer gloss white polyester	860 Microns
Adhesive	Strong permanent adhesive	
Liner		84 Microns
		Total: 944 Microns +/- 10%

Temperature Performance:

Minimum Application Temperature: 10° C

Ideal Application Temperature: 16° C to 38° C

Service Temperature: -35° C to 85° C

Storage Conditions: 20° C at 50% RH

Expected Exterior Life: Recommended for outdoor use for 1year +

Matt White Polypropylene (Silverline Blade)

Material Construction:

	Description	Caliper
Facestock	Thermal transfer printable polypropylene	1215 Microns
Adhesive	Strong permanent adhesive	
Liner		84 Microns
		Total: 1299 Microns +/- 10%

Temperature Performance:

Minimum Application Temperature:	10° C
Ideal Application Temperature:	21° C to 38° C
Service Temperature:	-35° C to 85° C
Storage Conditions:	20° C at 50% RH

Expected Exterior Life: Recommended for outdoor use for 1year +

Surface Compatibility

	Cardboard*	Polypropylene	Teflon	Polyurethane	Glass	Duroid (ceramic)	Close coupling**
Belt	2	3	3	2	1	1	3
Dogbone	1	3	3	3	2	2	1
ShortDipole	3	3	3	2	2	2	1

- 1 – Surface offers limited use with this antenna
- 2 – Moderate acceptability
- 3 – Best surface to use with this antenna

* Contents of corrugate packaging may have noticeable effect on RF performance.

** Close coupling refers to how well the inlays tolerate overlapping each other or stacking in close proximity (<25mm) from each other.

Product Performance and Suitability

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application. Testing is highly recommended.