EMEA RFID Supplies Catalogue

June 2023






Industrial/Print Engine
ZT231R
ZT410R/411R
ZT410R Silverline
ZT411R On-Metal
ZT420R/421R
ZT610R
ZT620R

Core Size: 76mm / 3"
Outside Diameter: 200mm / 8"

Desktop
ZD500R
ZD621R

Core Size: 76mm / 3"
Outside Diameter: 127mm / 5"

Mobile
ZQ511R
ZQ521R
ZQ520R
ZQ630R

Core Size: 19mm / 0.75"
Outside Diameter: 51mm / 2"
57mm / 2.24"
57mm / 2.24"
66mm / 2.6"

Industrial Printers

General Purpose RFID Labels - 3" Core, 8" OD

Suitable 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. We always recommend testing in application.

Paper inlay

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
BT713 / UCODE 8 	128 bit	-	Matte White Polypropylene	**ZIPRT3016014**	25 x 15	4000	1	0.63	04800BK04045
BT781 / UCODE 9/8 	96 bit	-	Matte White Polypropylene	**ZIPRT3016343**	44 x 19	5000	1	0.69	05095BK06045
	128 bit	-	Gloss White PET	**ZIPRT3016946**	44 x 19	5000	1	0.69	05095BK06045
BT793 / UCODE 9 	96 bit	-	Z-Select 2000D	**ZIPRT3016389**	54 x 34	3000	1	1.07	N/A
Linxens Boomerang / UCODE 9 	96 bit	NEW	Z-Select 2000T	**ZIPRT3017422**	70 X 24	4300	1	1.33	02300BK08345
BT573 / UCODE 8 	128 bit	-	PolyPro 3000T	**ZIPRT3015701**	76 x 25	4500	1	1.33	05095BK08345
BT573 / UCODE 9 	96 bit	NEW	PolyPro 3000T	**ZIPRT3017401**	76 x 25	4500	1	1.33	05095BK08345
Stora Enso Eco Rack / UCODE 8 	128 bit	-	Z-Select 2000D	**ZIPRT3016340**	76 x 25	4500	1	1.33	N/A
ZBR2000 / UCODE 8 	128 bit	-	Z-Select 2000T	**ZIPRT3015751**	102 x 25	4000	1	1.81	02300BK11045
				ZIPRT3014647	102 x 51	2000	1	1.70	
				ZIPRT3015752	102 x 76	1500	1	1.88	
				ZIPRT3014648	102 x 152	1000	1	2.45	
				ZIPRT3015298	148 x 210	600	1	2.91	
ZBR2100 / UCODE 9 	96 bit	NEW	Z-Select 2000T	**ZIPRT3017402**	102 x 25	4000	1	1.81	02300BK11045
				ZIPRT3017403	102 x 51	2000	1	1.70	
				ZIPRT3017404	102 x 76	1500	1	1.88	
				ZIPRT3017405	102 x 152	1000	1	2.45	
ZBR2100-E / UCODE 9 	96 bit		Z-Perform 1000D	**ZIPRT3017011~**	102 x 152	1000	1	2.45	N/A

Industrial Printers

Advanced RFID Labels - 3" Core, 8" OD

Suitable for use in similar applications to the general purpose labels, but provide a higher level of read-performance.

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. We always recommend testing in application.

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
ZBR4000 / UCODE 8 	128 bit	-	Z-Select 2000T	**ZIPRT3014477**	102 x 51	2000	1	1.71	02300BK11045
				ZIPRT3014478	102 x 152	1000	1	1.96	
ZBR4100 / UCODE 9 	96 bit	NEW	Z-Select 2000T	**ZIPRT3017423**	102 x 51	2000	1	1.71	02300BK11045
				ZIPRT3017424	102 x 152	1000	1	1.96	

Specialist High Memory RFID Tags for Industrial Printers

eKanban Global Transport Label (GTL) & Small Load Carrier (SLC)

Thermal transfer printable tags, Pantone yellow 100 C face colour, no adhesive, notch and perforation. Compliant with VDA recommendations 4994 and 5501 and suitable for ESD variant containers. 496 bit EPC, 128 bit user memory.

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
ZBR4005 / Monza M4E 	496 bit	128 bit	TT Printable Yellow Paper	**ZIPRT3016314**	80 x 208	600	1	2.40	03400BK08945
				ZIPRT3016315	150 x 208	600	1	2.90	03400BK15645

Desktop Printers

General Purpose RFID Labels - 3" Core, 5" OD

Suitable for most non-metallic surfaces, such as plastic and corrugated boxes. Typical applications include: Labelling of boxes, pallet, products and healthcare samples.

Paper inlay

Zebra's RFID labels have been tested and optimised to work with Zebra's RFID printers and readers. We always recommend testing in application.

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
BT713 / UCODE 8 	128 bit	-	Matte White Polypropylene	**ZIPRD3016013**	25 x 15	1000	2	0.45	05095GS06407
BT781 / UCODE 9 	96 bit	-	Matte White Polypropylene	**ZIPRD3016344**	44 x 19	1000	2	0.56	05095GS06407
BT793 / UCODE 9 	96 bit	-	Z-Select 2000D	**ZIPRD3016390**	54 x 34	700	2	1.07	N/A
Linxens Boomerang / UCODE 9 	96 bit	NEW	Z-Select 2000T	**ZIPRD3017425**	70 X 24	1000	2		02300GS08307
BT573 / UCODE 8 	128 bit	-	Z-Ultimate 2500T	**ZIPRD3015753**	76 x 25	1000	2	0.74	05095GS08407
BT573 / UCODE 9 	96 bit	NEW	Z-Ultimate 2500T	**ZIPRD3017407**	76 x 25	1000	2	0.74	05095GS08407
STORA ENSO ECO RACK / UCODE 8 	128 bit		Z-Select 2000D	**ZIPRD3016341**	76 x 25	1000	2		N/A
ZBR2000 / UCODE 8 	128 bit	-	Z-Select 2000T	**ZIPRD3015754**	102 x 25	1000	2	0.92	02300GS11007
				ZIPRD3014657	102 x 51	500	2	0.84	
				ZIPRD3015755	102 x 76	400	2	1.02	
				ZIPRD3014658	102 x 152	200	2	0.98	
ZBR2100 / UCODE 9 	96 bit	NEW	Z-Select 2000T	**ZIPRD3017408**	102 x 25	1000	2	0.92	02300GS11007
				ZIPRD3017409	102 x 51	500	2	0.84	
				ZIPRD3017410	102 x 76	400	2	1.02	
				ZIPRD3017411	102 x 152	200	2	0.98	
ZBR2100-E / UCODE 9 	96 bit	NEW	Z-Perform 1000D	**ZIPRD3017012~**	102 x 152	200	2	1	N/A

Desktop Printers

Advanced RFID Labels - 3" Core, 5" OD

Suitable for use in similar applications to the general purpose labels, but provide a higher level of read-performance.

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. We always recommend testing in application.

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
ZBR4000 / UCODE 8 	128 bit	-	Z-Select 2000T	**3014480-T**	102 x 51	500	2	0.84	02300GS11007
			Z-Select 2000T	**ZIPRD3014479**	102 x 152	200	2	0.98	
ZBR4100 / UCODE 9 	96 bit	NEW	Z-Select 2000T	**ZIPRD3017426**	102 x 51	500	2	1.71	02300BK11045
				ZIPRD3017427	102 x 152	200	2	1.96	

RFID Wristbands for Desktop Printers

Zebra's UHF RFID wristbands offer a durable direct thermal printable RFID wristband solution.

The Z-Band Direct SR (short range) wristband is ideal for applications within the Hospitality such as guest tracking, access control, cashless transactions

The Z-Band Ultrasoft LR (long range) wristband features an inlay specifically designed to work on the human body which flags away from the wrist enabling a much longer read range than standard wristbands. Ideal for Healthcare applications such as patient identification.

Due to the many variables that can affect read range, we always recommend testing in application.

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
BT0600 / UCODE 8 	128 bit	-	Z-Band Direct (SR)	**3014578**	25 x 279	175	3	0.60	No ribbon required
ZBR2002 / UCODE 8 	128 bit	-	Z-Band Ultrasoft (LR)	**ZIPRD3015155**	25 x 362	175	3	0.90	No ribbon required

Mobile Printers

General Purpose RFID Labels - 19mm Core

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. We always recommend testing in application.

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
BT781 / UCODE 8 	128 bit	-	PolyPro 4000D	**ZIPRM3016596~**	46 x 25	200	12	0.6	No ribbon required
BT793 / UCODE 9 	96 bit	-	Z-Select 2000D	**ZIPRM3016391**	54 x 34	90	12	0.84	
BT573 / UCODE 8 	128 bit	-	PolyPro 4000D	**ZIPRM3015703**	76 x 25	260	12	0.96	
BT573 / UCODE 9 	96 bit	NEW	PolyPro 4000D	**ZIPRM3017412**	76 x 25	260	12	0.96	
ZBR2000 / UCODE 8 	128 bit	-		**ZIPRM3015756**	102 x 51	180	12	1.92	
				ZIPRM3015757	102 x 152	75	12	2.40	
ZBR2100 / UCODE 9 	96 bit	NEW		**ZIPRM3017412**	102 x 51	180	12	1.92	
				ZIPRM3017414	102 x 152	75	12	2.40	

~ Perforation between labels

Specialist On-Metal Labels

for tagging small metal items

Thermal transfer printable white Polyester RFID labels for use on small metal objects such a jewellery and pipes. These 'flag' stlye labels hold the antenna away from the metal object, reducing the interference of the metal and allowing the tag to be read. An excellent lower cost option for on-metal tagging where the durability of Silverline is not required

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
BT577 Flag / Monza MR6-P 	128 bit	32 bit	Z-Ultimate 2500T	**ZIPRT3015655**	68 x 23	5000	1	1.62	05095BK08345
EOS-200 Jewelery / UCODE 9 ** 	96 bit	-	TT Printable White Polyester	**10038478 ****	76 x 14	1500	2	0.82	05095GS08407

**** Only suitable for use in ZD500R or ZD621R Desktop Printers**

NEW Silverline II On-Metal Labels (Zebra Silverline RFID ZT410/ZT411 On-Metal Printers)

for tagging high value items & assets in demanding environments

The next generation of Silverline RFID on-metal labels build upon the printing and encoding performance many have relied on, with new materials and the latest chip technology, regionally tuned to offer up to **3X** longer read ranges on-metal and improved readability on non-metal surfaces.
Their durability, versatile all-surface application properties and readable range of up to **15** 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.

Inlay / IC	EPC Memory	User Memory	Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Approx. Weight/Box (KG)	Recommended Ribbon Part Number
Silverline Micro II ETSI / Monza R6-P	128 bit	32 bit	TT Printable White Polyester	**10026763**	45 x 13	600	1	0.50	05095BK06045
Silverline Micro II FCC / Monza R6-P	128 bit	32 bit		**10026764**	45 x 13	600	1	0.50	05095BK06045
Silverline Slim II ETSI / Monza R6-P	128 bit	32 bit		**10026765**	100 x 13	600	1	1.05	05095BK11045
Silverline Slim II FCC / Monza R6-P	128 bit	32 bit		**10026766**	100 x 13	600	1	1.05	05095BK11045
Silverline Blade II ETSI / M730	128 bit	-		**10026767**	60 x 25	400	1	0.63	05095BK06045
Silverline Blade II FCC / M730	128 bit	-		**10026768**	60 x 25	400	1	0.63	05095BK06045
Silverline Blade II+ Global / M780	496 bit	128 bit		NEW **10039973**	60 x 25	400	1	0.63	05095BK06045
Silverline Classic II ETSI / M730	128 bit	-		**10026769**	100 x 40	250	1	0.87	05095BK11045
Silverline Classic II FCC / M730	128 bit	-		**10026770**	100 x 40	250	1	0.87	05095BK11045

Silverline Specifications

For full electrical & mechanical specification, please refer to the latest data sheet.All products are wash and water resistant and have chemical resistance to sulphuric acid, motor oil, salt water and sodium hydroxide (caustic soda) - test details can be found on the datasheets

Sample RFID Media

Inlay / IC			Material	Part Number	Size W x H (mm)	Labels/Roll	Core Size	Recommended Ribbon Part Number - IND	Recommended Ribbon Part Number - DT
BT713 / UCODE 8			Matte White PP	**SAMPLE16014R**	25 x 15	100	**76mm**	04800BK04045	05095GS06407
BT781 / UCODE 8			Gloss White PET	**SAMPLE16946R**	44 x 19	100	**76mm**	05095BK06045	05095GS06407
BT793 / UCODE 9			Z-Select 2000D	**SAMPLE16389R**	54 x 35	100	**76mm**	N/A	N/A
BT577 Flag / MR6-P			Z-Ultimate 2500T	**SAMPLE15655R**	68 x 23	250	**76mm**	05095BK08345	05095GS08407
Linxens Boomerang / UCODE 9		NEW	Z-Select 2000T	**SAMPLE17422R**	70 x 24	100	**76mm**	02300BK11045	02300gs11007
EOS-200 Jewellery / UCODE 9 **			Gloss White PET	**SAMPLE38478R**	76 X 14	100	**76mm**	N/A	05095GS08407
BT573 / UCODE 8			Z-Ultimate 2500T	**SAMPLE15750R**	76 x 25	100	**76mm**	05095BK08945	05095GS08407
BT573 / UCODE 9		NEW	PolyPro 3000T	**SAMPLE17401R**	76 x 25	100	**76mm**	05095BK08945	05095GS08407
Stora Enso Eco Rack / UCODE 8			Z-Select 2000D	**SAMPLE16340R**	76 X 25	100	**76mm**	N/A	N/A
Smartrac Dogbone / UCODE 8			Z-Select 2000T	**SAMPLE26638R**	97 x 27	100	**76mm**	02300BK10245	02300GS11007
ZBR2000 / UCODE 8			Z-Select 2000T	**SAMPLE14648R**	102 x 152	100	**76mm**	02300BK11045	02300GS11007
ZBR2100 / UCODE 9		NEW	Z-Select 2000T	**SAMPLE17405R**	102 x 152	100	**76mm**	02300BK11045	02300GS11007
ZBR2100-E / UCODE 9			Z-Perform 1000D	**SAMPLE17011R**	102 x 152	100	**76mm**	N/A	N/A
ZBR4000 / UCODE 8			Z-Select 2000T	**SAMPLE14477**	102 x 51	100	**76mm**	02300BK11045	02300GS11007
ZBR4100 / UCODE 9		NEW	Z-Select 2000T	**SAMPLE17423R**	102 x 51	100	**76mm**	02300BK11045	02300GS11007
ZBR2000 / UCODE 8			Z-Select 2000T	**SAMPLE15298R**	148 x 210	100	**76mm**	02300BK15645	N/A

** Only suitable for use in ZD500R or ZD621R Desktop Printers

Sample Silverline II Media (Zebra Silverline RFID ZT410/ZT411 On-Metal Printers only)

Inlay / IC			Material	Part Number	Size W x H (mm)	Labels/Roll	Rolls/Box	Recommended Ribbon Part Number
Silverline Micro II ETSI / Monza R6-P			TT Printable White Polyester	**SAMPLE26763R**	45 x 13	100	1	05095BK06045
Silverline Slim II ETSI / Monza R6-P				**SAMPLE26765R**	100 x 13	100	1	05095BK11045
Silverline Blade II ETSI / M730				**SAMPLE26767R**	60 x 25	100	1	05095BK06045
Silverline Blade II+ / M780		NEW		**SAMPLE39973R**	60 x 25	100	1	05095BK06045
Silverline Classic II ETSI / M730				**SAMPLE26769R**	100 x 40	100	1	05095BK11045

Sample rolls of labels for testing/ demo purposes

N.B. no discount applies to sample rolls- this is nett pricing to partner

Inlay/IC Memory

Inlay	Inlay design	IC	Inlay Size (mm)	Memory (bits)		Theoretical Read Ranges (m) ETSI 865-868 MHz					
				EPC	User	Cardboard	Glass	Polyacetyl	PVC	Metal	Liquid
Tageos EOS-200		UCODE 8	22 x 12.5	128	-	2	2	3	3	N/A	N/A
BT713		UCODE 8	22 x 12.5	128	-	4	1	2	1	N/A	N/A
BT782		MQT	22.5 x 22.5	128	512	2	N/A	1	2	N/A	N/A
BT577		MR6-P	31.5 x 18	96/128	32/64	N/A	N/A	N/A	N/A	9	N/A
BT600		UCODE 8	40 x 15	128	-	6	3	4	4	N/A	N/A
BT781		UCODE 8/9	42 x 17	128/96	-	10	5	6	7	N/A	N/A
BT546		UCODE 8	50 x 30	128	-	8	12	7	8	N/A	N/A
BT793		UCODE 9	50 X 30	96	-	14	8	11	13	N/A	N/A
Smartrac Belt		UCODE 8	70 x 14	128	-	14	9	13	14	N/A	N/A
BT573		UCODE 8	72 x 12	128	-	14	11	12	13	N/A	N/A
Stora Enso Eco Rack		UCODE 8	70 x 15	128	-	12	9	10	11	N/A	N/A
Smartrac Short Dipole		UCODE 8	93 x 11	128	-	13	14	13	14	N/A	N/A
Smartrac Dogbone		UCODE 8	88 x 24	128	-	14	13	12	12	N/A	N/A
Zebra ZBR2000		UCODE 8	95 x 8	128	-	15	9	11	11	N/A	N/A
Zebra ZBR2100-E		UCODE 9	95 x 8	128	-	18	8	12	13	N/A	2
BT784		Monza 4QT	95 x 8	128	512	9	9	8	9	N/A	N/A
Zebra ZBR4000		UCODE 8	91 x 35	128	-	15	16	17	18	N/A	N/A
Zebra ZBR4005		Monza 4E	95 x 45	496	128	10	10	12	12	N/A	N/A
BT295		Monza 4QT	44 x 44	128	512	7	1	5	3	N/A	N/A
Silverline Micro II		Monza R6-P	45 x 13	96/128	32/64	1.5	1.5	1.5	1.5	3.5	2
Silverline Slim II		Monza R6-P	100 x 13	96/128	32/64	3.5	4.5	3.5	4	7	4
Silverline Blade II		M730	60 x 25	128	-	4.5	2	3.5	5	10	4
Silverline Classic II		M730	100 x 40	128	-	9	12	10.5	9	15	10

Theoretical Read Ranges (m) on different materials using Voyantic Tagformance

Theoretical read range data is meant to be directional. Actual performance will depend on your application and environment. Testing is recommended.

For additional information please see individual inlay data sheets.

IC Comparison

Manufacturer	Name	EPC Memory (bits)	User Memory (bits)	# EPC characters		# User characters		TID Prefix	Read Sensitivity	Write Sensitivity	Notes
				Hex	ASCII	Hex	ASCII				
Alien	Higgs 3	96/480	512/128	24/120	12/60	128/32	64/16	E200 3412	-18 dBm	-14 dBm	EPC can extend up to 480 bits by taking from User memory in 64 bit blocks (see Zebra Programming Guide)
Alien	Higgs 4	128	128	32	16	32	16	E200 3414	-19 dBm	-16 dBm	
Alien	Higgs EC	128	128	32	16	32	16		-20 dBm	-17 dBm	
Alien	Higgs 9	96	688	24	12	172	86		-18 dBm	-16 dBm	EPC can be extended up to 496 bits taking from User memory (see Zebra Programming Guide)
Impinj	Monza 4D	128	32	32	16	8	4	E280 1100	-20 dBm	-17 dBm	
Impinj	Monza 4E	496	128	124	62	32	16	E280 110C	-20 dBm	-17 dBm	
Impinj	Monza 4i	256	480	64	32	120	60	E280 1114	-20 dBm	-17 dBm	
Impinj	Monza 4QT	128	512	32	16	128	64	E280 1105	-20 dBm	-17 dBm	
Impinj	Monza 5	128	32	32	16	8	4	E280 1102	-20 dBm	-16 dBm	
Impinj	R6	96	-	24	12	-	-	E280 1160	-22 dBm	-17 dBm	
Impinj	R6-P	128/96	32/64	32/24	16/12	8/16	4/8	E280 1170	-22 dBm	-17 dBm	User memory can be extended to 64 bits taking 32 bits from EPC memory (see Zebra Programming Guide)
Impinj	R6-B	96	-	24	12	-	-	E280 1171	-22 dBm	-17 dBm	
Impinj	M730	128	-	32	16	-	-	E280 1191	-24 dBm	-21 dBm	
Impinj	M750	96	32	24	12	8	4	E280 1190	-24 dBm	-21 dBm	
NXP	UCODE G2iL	128	-	32	16	-	-	E200 6806	-18 dBm		
NXP	UCODE G2iM	256	512	64	32	128	64	E200 680A	-18 dBm		
NXP	UCODE 7	128	-	32	16	-	-	E280 6810	-21 dBm	-16 dBm	
NXP	UCODE 7XM - 1K	448	1024	112	56	256	128	E280 6D12	-19 dBm	-12 dBm	
NXP	UCODE 7XM - 2K	448	2048	112	56	512	256	E2806F12	-19 dBm	-12 dBm	
NXP	UCODE DNA	224	3072	56	28	768	384	E2CO 6892	-19 dBm	-11 dBm	
NXP	UCODE 8	128	-	32	16	-	-	E280 6894	-23 dBm	-18 dBm	
NXP	UCODE 9	96	-	24	12	-	-	E280 6995	-24 dBm	-22 dBm	

Additional notes on Read and Write Sensitivity: 6 dBm difference in sensitivity doubles read range, 1 dBm difference increases read range by 12% than -21 dBM, all else held equal)
Higher absolute numbers for read and write sensitivity will give longer ranges. (-23dBm will have longer read range