



# EMEA RFID Supplies Catalogue January 2024



## Industrial/Print Engine

ZT231R  
ZT410R/411R  
ZT410R Silverline  
ZT411R On-Metal  
ZT420R/421R  
ZT610R  
ZT620R  
RXi4  
ZE500R

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



## Desktop

ZD500R  
ZD621R  
ZD611R

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 plastics and corrugated boxes.

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	Typical Applications
BT713 / UCODE 8 	128 bit	-	Matte White Polypropylene	ZIPRT3016014	25 x 15	4000	1	0.63	04800BK04045	Retail: Jewellery, Cosmetics Healthcare/Pharma: Specimin
BT781 / UCODE 9/8 	96 bit	-	Matte White Polypropylene	ZIPRT3016343	44 x 19	5000	1	0.69	05095BK06045	Retail: Apparel Healthcare: Specimin
	128 bit	-	Gloss White PET	ZIPRT3016946	44 x 19	5000	1	0.69	05095BK06045	Manufacturing: Automotive parts tracking
BT793 / UCODE 9 	96 bit	-	Z-Select 2000D	ZIPRT3016389	54 x 34	3000	1	1.07	N/A	Retail: Apparel, hang tags Document tracking
Linxens Boomerang / UCODE 9 	96 bit	-	Z-Select 2000T	ZIPRT3017422	70 X 24	4300	1	1.33	02300BK08345	Retail: Apparel, Item labelling Manufacturing: Parts tracking
BT573 / UCODE 9 	96 bit	-	PolyPro 3000T	ZIPRT3017401	76 x 25	4500	1	1.33	05095BK08345	Manufacturing: Parts tracking Asset tracking Document tracking
Stora Enso Eco Rack / UCODE 8 	128 bit	-	Z-Select 2000D	ZIPRT3016340	76 x 25	3950	1	1.33	N/A	Retail: Apparel, Item labelling Manufacturing: WIP labelling
ZBR2000 / UCODE 8 	128 bit	-	Z-Select 2000T	ZIPRT3015751	102 x 25	4000	1	1.81	02300BK11045	Retail: E-commerce, inventory management T&L: Shipping labels, pallet labels Manufacturing: Part tracking Asset tracking
				ZIPRT3014647	102 x 51	2000	1	1.70		
				ZIPRT3015752	102 x 76	1500	1	1.88		
				ZIPRT3014648	102 x 152	1000	1	2.45		
ZBR2100 / UCODE 9 	96 bit	-	Z-Select 2000T	ZIPRT3017402	102 x 25	4000	1	1.81	02300BK11045	Retail: E-commerce, inventory management T&L: Shipping labels, pallet labels Manufacturing: Part tracking Asset tracking
				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	Retail: E-commerce T&L: Shipping labels, pallet labels




 Paper inlay

# 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 particularly on challenging materials such as glass or some plastics.


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	Typical Applications
Smartrac DogBone / UCODE 8 	128 bit	-	Z-Select 2000T	<b>ZIPRT3016015</b>	97 x 27	3500	1	1.85	02300BK10245	Manufacturing: Automotive parts tracking T&L: Shipping labels, pallet labels Asset tracking
ZBR4000 / UCODE 8 	128 bit	-	Z-Select 2000T	<b>ZIPRT3014477</b>	102 x 51	2000	1	1.71	02300BK11045	
ZBR4100 / UCODE 9 	96 bit	-	Z-Select 2000T	<b>ZIPRT3017423</b>	102 x 51	2000	1	1.71	02300BK11045	
				<b>ZIPRT3017424</b>	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, notch and perforation, no adhesive. 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	Typical Applications
ZBR4005 / Monza M4E 	496 bit	128 bit	TT Printable Yellow Paper	<b>ZIPRT3016314</b>	80 x 208	600	1	2.40	03400BK08945	Manufacturing: Automotive parts tracking T&L: Shipping labels, pallet labels
				<b>ZIPRT3016315</b>	150 x 208	600	1	2.90	03400BK15645	

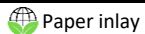
# Desktop Printers

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

Suitable for most non-metallic surfaces, such as plastics and corrugated boxes.

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	Typical Applications
BT713 / UCODE 8 	128 bit	-	Matte White Polypropylene	<b>ZIPRD3016013</b>	25 x 15	1000	2	0.45	05095GS06407	Retail: Jewellery, Cosmetics Healthcare/Pharma: Specimin
BT781 / UCODE 9 	96 bit	-	Matte White Polypropylene	<b>ZIPRD3016344</b>	44 x 19	1000	2	0.56	05095GS06407	Retail: Apparel Healthcare: Specimin Manufacturing: Automotive parts tracking
BT793 / UCODE 9 	96 bit	-	Z-Select 2000D	<b>ZIPRD3016390</b>	54 x 34	700	2	1.07	N/A	Retail: Apparel, hang tags Document tracking
Linxens Boomerang / UCODE 9 	96 bit	-	Z-Select 2000T	<b>ZIPRD3017425</b>	70 X 24	1000	2		02300GS08307	Retail: Apparel, Item labelling Manufacturing: Parts tracking
BT573 / UCODE 8 	128 bit	-	Z-Ultimate 2500T	<b>ZIPRD3015753</b>	76 x 25	1000	2	0.74	05095GS08407	Manufacturing: Parts tracking Asset tracking Document tracking
BT573 / UCODE 9 	96 bit	-	Z-Ultimate 2500T	<b>ZIPRD3017407</b>	76 x 25	1000	2	0.74	05095GS08407	
STORA ENSO ECO RACK / UCODE 8 	128 bit		Z-Select 2000D	<b>ZIPRD3016341</b>	76 x 25	1000	2		N/A	Retail: Apparel, Item labelling Manufacturing: WIP labelling
ZBR2000 / UCODE 8 	128 bit	-	Z-Select 2000T	<b>ZIPRD3015754</b>	102 x 25	1000	2	0.92	02300GS11007	Retail: E-commerce, inventory management T&L: Shipping labels, pallet labels Manufacturing: Part tracking Asset tracking
				<b>ZIPRD3014657</b>	102 x 51	500	2	0.84		
				<b>ZIPRD3015755</b>	102 x 76	400	2	1.02		
				<b>ZIPRD3014658</b>	102 x 152	200	2	0.98		
ZBR2100 / UCODE 9 	96 bit	-	Z-Select 2000T	<b>ZIPRD3017408</b>	102 x 25	1000	2	0.92	02300GS11007	Retail: E-commerce, inventory management T&L: Shipping labels, pallet labels Manufacturing: Part tracking Asset tracking
				<b>ZIPRD3017409</b>	102 x 51	500	2	0.84		
				<b>ZIPRD3017410</b>	102 x 76	400	2	1.02		
				<b>ZIPRD3017411</b>	102 x 152	200	2	0.98		
ZBR2100-E / UCODE 9 	96 bit		Z-Perform 1000D	<b>ZIPRD3017012</b>	102 x 152	200	2	1	N/A	Retail: E-commerce T&L: Shipping labels, pallet labels






# 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 particularly on challenging materials such as glass or some plastics.



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	Typical Applications
Smartrac DogBone / UCODE 8 	128 bit	-	Z-Select 2000T	<b>ZIPRD3015860</b>	97 x 27	800	2	0.85	02300GS11007	Manufacturing: Automotive parts tracking T&L: Shipping labels, pallet labels Asset tracking
ZBR4000 / UCODE 8 	128 bit	-	Z-Select 2000T	<b>3014480-T</b>	102 x 51	500	2	0.84		
				<b>ZIPRD3014479</b>	102 x 152	200	2	0.98		
ZBR4100 / UCODE 9 	96 bit	-	Z-Select 2000T	<b>ZIPRD3017426</b>	102 x 51	500	2	1.71		
				<b>ZIPRD3017427</b>	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.

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	Typical Applications
BT0600 / UCODE 8 	128 bit	-	Z-Band Direct (SR)	<b>3014578</b>	25 x 279	175	3	0.60	No ribbon required	Hospitality: Guest tracking Healthcare: Patient ID using handheld reader
ZBR2002 / UCODE 8 	128 bit	-	Z-Band Ultrasoft (LR)	<b>ZIPRD3015155</b>	25 x 362	175	3	0.90	No ribbon required	Healthcare: Patient ID using handheld or fixed readers

# Mobile Printers

## General Purpose RFID Labels - 19mm Core

Suitable for most non-metallic surfaces, such as plastics and corrugated boxes.

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	Typical Applications
BT781 / UCODE 8 	128 bit	-	PolyPro 4000D	<b>ZIPRM3016596</b> ~	46 x 25	200	12	0.6	No ribbon required	Retail: Apparel Healthcare: Specimin tracking
BT793 / UCODE 9 	96 bit	-	Z-Select 2000D	<b>ZIPRM3016391</b>	54 x 34	90	12	0.84		Retail: Apparel, hang tags Document tracking
BT573 / UCODE 8 	128 bit	-	PolyPro 4000D	<b>ZIPRM3015703</b>	76 x 25	260	12	0.96		Manufacturing: Parts tracking Asset tracking Document tracking
BT573 / UCODE 9 	96 bit	-	PolyPro 4000D	<b>ZIPRM3017412</b>	76 x 25	260	12	0.96		
ZBR2000 / UCODE 8 	128 bit	-	Z-Select 2000D	<b>ZIPRM3015756</b>	102 x 51	180	12	1.92		Retail: E-commerce, inventory management T&L: Shipping labels, pallet labels Manufacturing: Part tracking Asset tracking
				<b>ZIPRM3015757</b>	102 x 152	75	12	2.40		
ZBR2100 / UCODE 9 	96 bit	-	Z-Select 2000D	<b>ZIPRM3017413</b>	102 x 51	180	12	1.92		
				<b>ZIPRM3017414</b>	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 as jewellery and pipes. These 'flag' style 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	Typical Applications
BT577 Flag / Monza MR6-P 	128 bit	32 bit	Z-Ultimate 2500T	<b>ZIPRT3015655</b>	68 x 23	5000	1	1.62	05095BK08345	Retail: Cosmetics with metal packaging Manufacturing: Parts tracking
EOS-200 Jewellery / UCODE 9 ** 	96 bit	-	TT Printable White Polyester	<b>10038478 **</b>	76 x 14	1500	2	0.82	05095GS08407	Retail: Jewellery labelling

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

# 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	Typical Applications
Silverline Micro II ETSI / Monza R6-P	128 bit	32 bit	TT Printable White Polyester	<b>10026763</b>	45 x 13	600	1	0.50	05095BK06045	Manufacturing: Part/tool tracking, Asset tracking T&L: Returnable cages, IBC's Healthcare: Asset tracking
Silverline Micro II FCC / Monza R6-P	128 bit	32 bit		<b>10026764</b>	45 x 13	600	1	0.50	05095BK06045	
Silverline Slim II ETSI / Monza R6-P	128 bit	32 bit		<b>10026765</b>	100 x 13	600	1	1.05	05095BK11045	
Silverline Slim II FCC / Monza R6-P	128 bit	32 bit		<b>10026766</b>	100 x 13	600	1	1.05	05095BK11045	
Silverline Blade II ETSI / M730	128 bit	-		<b>10026767</b>	60 x 25	400	1	0.63	05095BK06045	
Silverline Blade II FCC / M730	128 bit	-		<b>10026768</b>	60 x 25	400	1	0.63	05095BK06045	
Silverline Blade II+ Global / M780	496 bit	128 bit		<b>NEW 10039973</b>	60 x 25	400	1	0.63	05095BK06045	
Silverline Classic II ETSI / M730	128 bit	-		<b>10026769</b>	100 x 40	250	1	0.87	05095BK11045	
Silverline Classic II FCC / M730	128 bit	-		<b>10026770</b>	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

# HARD TAGS

## Rugged tags

Durable, rugged solutions are an ideal choice where standard printable RFID labels may become damaged or removed, or where resistance to bumps, shocks, wash cycles, or other abuse over the course of an assets lifecycle are required.

Tag / IC	EPC Memory	User Memory	Part Number	Size W x H x D (mm)	Temperature	Read Range	Tags/Box	Approx. Weight/Box (KG)	Additional Information
<p>Ironside Classic / M780</p> 	496 bit	128 bit	10041052	51.5 x 47.5 x 10	-55°C to +105°C	Up to 20m (On metal) Up to 8m (On plastic)	500	11	<p>Durable tag for challenging industrial asset management applications</p> <ul style="list-style-type: none"> <li>• IP68 rated</li> </ul> <p>Vibration resistance: JESD22-B103B, service condition 2; No physical or performance changes in:</p> <ul style="list-style-type: none"> <li>• 168 hour Motor oil exposure</li> <li>• 168 hour Salt water (salinity 10%) exposure</li> <li>• 168 hour Sulfuric acid (10%, pH 2) exposure</li> <li>• 24 hour NaOH (10%, pH 13) exposure</li> </ul>
<p>Ironside Slim / M780</p> 	496 bit	128 bit	10041053	85 x 21 x 10	-35°C to +85°C	Up to 17m (On metal) Up to 6m (Off metal)	600	9.3	<p>Versatile and durable tag for global asset tracking</p> <ul style="list-style-type: none"> <li>• IP68 rated</li> </ul> <p>No physical or performance changes in:</p> <ul style="list-style-type: none"> <li>• 168 hour Motor oil exposure</li> <li>• 24 hour Salt water (salinity 10%) exposure</li> <li>• 24 hour Sulfuric acid (10%, pH 2) exposure</li> <li>• 24 hour NaOH (10%, pH 13) exposure</li> </ul>
<p>Steelwave Classic / M780</p> 	496 bit	128 bit	10041054 (customisable item supplied with printable labels)	115 x 30 x 3.9	-35°C to +185°C	Up to 20m (On metal) Up to 14m (Off metal)	1000	9.3	<p>Thin all-surface-tag solution for returnable transit item tracking with extreme performance.</p> <ul style="list-style-type: none"> <li>• IP68 rated</li> </ul> <p>No physical or performance changes in:</p> <ul style="list-style-type: none"> <li>• 168h Sulfuric acid (10%, pH 2) exposure</li> <li>• 168h Motor oil exposure</li> <li>• 168h Salt water (salinity 10%) exposure</li> <li>• 1h NaOH (10%, pH 13) exposure</li> </ul>
<p>Carrier Tough Slim / M780</p> 	496 bit	128 bit	Coming soon	122 x 18 x 2	-35°C to + 85°C	Up to 12m	1000	1.0	<p>Durable tag solution for reliable plastic container and returnable transit item tracking.</p> <ul style="list-style-type: none"> <li>• IP68 rated</li> </ul> <p>No physical or performance changes in:</p> <ul style="list-style-type: none"> <li>• 168h Sulfuric acid (10%, pH 2) exposure</li> <li>• 168h Motor oil exposure</li> <li>• 168h Salt water (salinity 10%) exposure</li> <li>• 168h NaOH (10%, pH 13) exposure</li> </ul>
<p>RFID Laundry Tag</p> 	96-bit	-	76T7015WTAG-96	70 x 17 x 5	Washing: 100°C 200 minutes Drying: 180°C 15 minutes Ironing: 210°C 60 seconds	Up to 6m	1000	0.7	<p>Flexible and durable UHF RFID laundry tag specially developed for the industrial laundry and uniform market</p> <ul style="list-style-type: none"> <li>• Up to 200 wash cycles</li> <li>• Acid/alkali resistance during wash/dry cleaning process</li> <li>• Can be stitched, ironed into place or inserted into seams</li> </ul>



## 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			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			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
BT0A83A / M780		NEW	Z-Select 2000T	SAMPLE17650R	76 x 25	100	76mm	02300BK11045	02300GS11007
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			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
BT898C / M781		NEW	Z-Select 2000T	SAMPLE17649R	102 x 51	100	76mm	02300BK11045	02300GS11007
ZBR4000 / UCODE 8			Z-Select 2000T	SAMPLE14477	102 x 51	100	76mm	02300BK11045	02300GS11007
ZBR4100 / UCODE 9			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

## 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