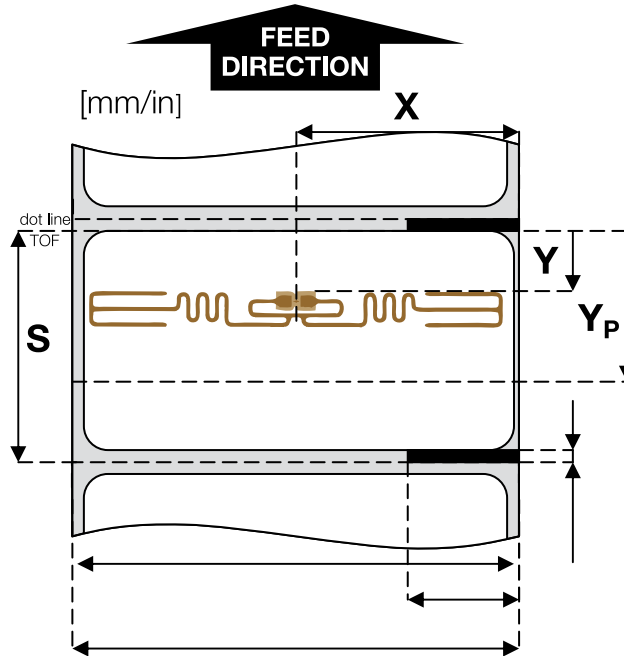




SATO RFID



Label Guide Specification



X: Liner Edge to Center of Chip

Y: Optimum Encoding Position

YP: Print Write Print (PWP) Position

S: Minimum Inlay Separation



This recommendation has been tested successfully at SATO. Results may vary in the actual customer installation due to overall system tolerances. Validation of functionality in the actual system is therefore recommended. In no event shall SATO be liable for any faults arising out of use of or inability to use the product.

GL4e RFID







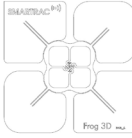

Manufacturer	Orientation (Size not to scale)	Position (mm)			Menu Selection (Interim Selection)	Coupler Position
		X	Y	S (min)		
Alien 9630 Squiglette Inlay (Higgs 3)		39	36	54	Alien9630 Sqlet (Alien 9629 SQ*)	Yellow
Alien 9634 Inlay (Higgs 3)		33	10	67	Alien 9634 (Alien 9629 SQ)	Yellow
Alien 9654 G Inlay (Higgs 3)		52	25	54	Alien 9654 G	Orange
Alien 9662 Short Inlay (Higgs 3)		40	25	54	Alien9662 Short	Yellow
Alien 9640 Squiggle Inlay (Higgs 3)		52	36	54	9640 Squig (Alien9640 Squig)	Orange
Alien ALN-9629 Square Inlay (Higgs 3)		30	25	54	Alien 9629 SQ (Alien 9529 SQ)	Yellow
Avery AD-223 Inlay (Monza 3)		52	36	54	Avery AD222	Orange
Avery AD-224 Inlay (G2XL)		52	36	54	Avery AD224	Orange
Avery Dennison AD-226iL Inlay (G2iL)		52	36	16	Avery AD226iL (Avery AD224)	Orange
Avery AD-230 Inlay (Monza 3)		40	20	54	Avery AD230	Yellow
Avery AD-232 Inlay (G2iL)		40	28	54	Avery AD232 (Avery AD230*)	Yellow
Avery AD-843 Inlay (Monza 3)		48	23	67	Avery AD843 (Alien9554 M-tag)	Orange
Avery AD-814 Inlay (Monza 3)		13	25	54	Avery AD814 (Avery AD812)	Orange
Invengo 8030A Inlay (G2XL)		52	30	54	Invengo 8030A (Raf 1282 Short)	Orange
RSI RSI-674 Inlay (Monza 3)		52	36	54	RSI-674 (RSI IN49 KAT2)	Orange
Smartrac Web (Monza 5)		33	18	54	Avery AD230	Yellow



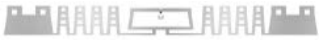










LABEL GUIDE SPECIFICATIONS

RFID Antennas








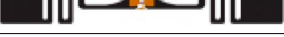











GL4e RFID

Manufacturer	Orientation (Size not to scale)	Position (mm)			Menu Selection (Interim Selection)	Coupler Position
		X	Y	S (min)		
Smartrac Dogbone 4 Inlay (Monza 4)		52	25	54	Raf 1876 Dogbn4 (Raf 825 Dogbone)	Blue
Smartrac Belt (G2iL)		38	28	54	Raf 1938Belt iL (Raf 1322 Sat)	Yellow
Smartrac Belt (G2iL)		38	28	54	Raf 1964Belt iL (Raf 1938Belt iL)	Yellow
Smartrac Short Dipole (Monza 4)		54	30	54	Raf 1974 Short (Raf 1488 Short*)	Orange
Smartrac Belt (Monza 5)		40	28	54	UPM 2029Belt M5 (Raf 1322 Sat)	Yellow
Smartrac Short Dipole (Monza 5)		52	30	54	UPM 1998Shrt M5 (Raf 1488 Short)	Orange
Smartrac Frog 3D (Monza 4)		27	0	79	UPM Frog 3D (Raf 1322 Sat)	Yellow
Smartrac Short Dipole (G2iL)		52	30	54	UPM 2043 Short (Raf 1488 Short)	Orange












CL4e Bracket Coupler

Manufacturer	Document #	Orientation (Size not to scale)	Position (mm)				RF Read/Write Power
			X	Y	Yp	S	
Invenzo Great Wall (Monza 5)	STB00633A		50	21 ± 7	N/A	50	7 dBm
Invenzo xWing (Monza 5)	STB00632A		38	18 ± 7	N/A	50	9 dBm
Avery Dennison AD-233 (Monza 5)	STB00631A		38	12.5 ± 2.5	14 ± -1	50	12 dBm
Avery Dennison AD-227 (Monza 5)	STB00630A		50	18.5 ± 11	N/A	50	12 dBm
Smartrac Technology Smartrac Belt (Monza 5)	STB00629A		38	13 ± 3	15.5 ± -0.5	50	10 dBm
Smartrac Technology Smartrac ShortDipole (Monza 4)	STB00628A		50	19 ± 5.5	N/A	40	9 dBm
Checkpoint Whirl (Monza 5)	STB00705A		29	16 ± 10.5	N/A	56	12 dBm
Checkpoint Champion (Monza 5)	STB00707A		40	12.0 ± 2.5	N/A	40	15 dBm
Checkpoint Wind (Monza 5)	STB00709A		29	-0.5 ± 3.5	27.5 ± 24.5	100	8 dBm
Checkpoint Triumph (G2iL)	STB00713A		40.0	13.5 ± 1.5	16.5 ± 1.5	50	16 dBm
Checkpoint High-Kick (G2iL)	STB00762A		27.5	16.0 ± 2.0	N/A	56	12/23 dBm

CL4e TPH Coupler














Manufacturer	Document #	Orientation (Size not to scale)	Position (mm)				RF Power
			X	Y	Yp	S	
Alien Technology Alien Squiggle (Higgs3)	STB00171A		51	4.0 ± 1.5	N/A	20	16 dBm
Avery Dennison AD-223/4 (Monza 3) (G2X)	STB00174A		51	0.0 ± 1.0	N/A	16	9 dBm
Smartrac Short Dipole (Monza 4)	STB00369PA1		51	1.3 ± 2.3	N/A	20	7 dBm
Smartrac Viper (Monza 4)	STB00521PA1		59	6.5 ± 5.5	N/A	20	7 dBm
Alien Technology ALN-9630 Squiglette (Higgs3)	STB00443PA2		38	1.5 ± 1.5	N/A	16	14 dBm
Avery Dennison AD-232iL (G2iL)	STB00445PA1		39.5	5.5 ± 1.5	N/A	38	15 dBm
Avery Dennison AD-232iL (G2iL)	STB00477PA1		38.0	-0.5 ± 1.5	N/A	22	12 dBm
Alien Technology Alien ALN-9662 Squiggle-SH (Higgs3)	STB00473PA1		38.0	3.3 ± 1.3	N/A	25	15 dBm
Alien Technology Alien ALN-9654 G (Higgs3)	STB00474PA1		50.0	-2.0 ± 2.0	N/A	25.4	9 dBm
Smartrac Belt (Monza 5)	STB00475PA1		39.0	2.0 ± 1.5	N/A	20	7 dBm
Smartrac DogBone (Monza 4 D/E/QT)	STB00476PA1		50.0	3.0 ± 2.0	N/A	30	6 dBm
Avery Dennison AD-226iL (G2iL)	STB00478PA1		52.0	1.0 ± 1.0	N/A	16.0	14 dBm
Avery Dennison AD-380iL (G2iL)	STB00479PA1		30.0	-1.8 ± 1.3	N/A	51	19 dBm
Avery Dennison AD-224 (G2XL/M)	STB00480PA1		50.0	0.5 ± 1.0	N/A	16	7 dBm
Checkpoint Whirl (Monza 5)	STB00693A		29.0	11.5 ± 2.5	N/A	38	11 dBm
Checkpoint Champion (Monza 5)	STB00695A		40.0	1.5 ± 2.5	N/A	25	8 dBm
Checkpoint Wind (Monza 5)	STB00697A		29.0	-3.5 ± 3.5	N/A	40	12 dBm
Checkpoint High-Kick (G2iL)	STB00701A		27.5	3.0 ± 1.5	N/A	42	16 dBm
Checkpoint Triumph (G2iL)	STB00703A		40.0	4.5 ± 1.5	N/A	31.5	14 dBm

M8485Se Bracket Coupler

Manufacturer	Document #	Orientation (Size not to scale)	Position (mm)				RF Read/Write Power
			X	Y	Yp	S	
Invengo Great Wall (Monza 5)	STB00643A		50	32.5 ± 2.5	N/A	50	7 dBm
Invengo xWing (Monza 5)	STB00642A		38	24 ± 7.5	N/A	50	8 dBm
Avery Dennison AD-233 (Monza 5)	STB00641A		38	9 ± 3	N/A	40	7 dBm
Avery Dennison AD-227 (Monza 5)	STB00640A		50	10.8 ± 3.3	16.5 ± 2.5	50	7 dBm
Smartrac Technology Smartrac Belt (Monza 5)	STB00639A		38	29 ± 4	N/A	50	6 dBm
Smartrac Technology Smartrac ShortDipole (Monza 4)	STB00638A		50	18 ± 4.5	N/A	40	9 dBm
Checkpoint Whirl (Monza 5)	STB00749A		29	20.8 ± 2.3	N/A	48.5	14 dBm
Checkpoint Champion (Monza 5)	STB00751A		40	9.5 ± 1.0	N/A	25	16 dBm
Checkpoint Wind (Monda 5)	STB00753A		29	5.0 ± 3.0	N/A	40	12 dBm
Checkpoint Highkick (G2iL)	STB00764A		27.5	12.3 ± 0.8	N/A	56	15/23 dBm
Checkpoint Triumph (G2iL)	STB00766A		40	20.5 ± 2.0	N/A	50	23/23 dBm



M8485Se TPH Coupler

Manufacturer	Document #	Orientation (Size not to scale)	Position (mm)				RF Power
			X	Y	Yp	S	
Checkpoint Whirl (Monza 5)	STB00737A		29	10.5 ± 1.5	N/A	38	15 dBm
Checkpoint Champion (Monza 5)	STB00739A		40	0.0 ± 2.0	N/A	25	10 dBm
Checkpoint Wind (Monza 5)	STB00741A		29	-5.0 ± 2.0	N/A	40	14 dBm
Checkpoint High-Kick (G2iL)	STB00745A		27.5	2.5 ± 1.5	N/A	42	16 dBm
Checkpoint Triumph (G2iL)	STB00747A		40	4.3 ± 1.8	N/A	31.5	15 dBm
Alien Technology Alien Squiggle (Higgs3)	STB00149A		51	6.0 ± 1.5	N/A	22	17 dBm
Avery Dennison AD-223/4 (Monza 3) (G2X)	STB00175A		51	2.3 ± 1.3	N/A	16	6 dBm
Avery Dennison AD-824 (G2XL/M)	STB00207PA1		18.3	-1.3 ± 2.0	N/A	63	18 dBm
Avery Dennison AD-826 (Monza 3)	STB00208PA1		18.3	-1.3 ± 2.0	N/A	63	18 dBm
Smartrac Short Dipole (Monza 4)	STB00368PA1		51	2.3 ± 3.3	N/A	20	15 dBm
Smartrac Short Dipole (Monza 4)	STB00370PA1		51	1.5 ± 2.0	N/A	20	12 dBm
Smartrac Belt (Monza 5)	STB00467PA1		40	4.5 ± 2.0	N/A	20	7 dBm
Avery Dennison AD-380iL (G2iL)	STB00472PA1		30	-0.5 ± 1.0	N/A	51	18 dBm

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