CL4NX UHF Inlay Configuration Guide

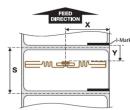
SATO recommends print speeds of 4 IPS or less for best results with RFID. The following recommendations have been tested successfully at SATO. Results may vary in the actual customer installation due to overall system tolerances. Validation of functionality in the actual system is therefore recommended.

Global Placement and Configurations globally valid with minor variation.

ETSI Placement and Configurations valid for European (ETSI) frequency range, 865-868MHz

FCC Valid for Frequencies that fall within the FCC range, 902-928MHz

NG NG



Inray Measurements:

X:Liner Edge to Center of Chip Y:rear of Imark(Imark sensor or front oflabel (gas sensor)to front of inray S:Minimum Inlay saparation

					Posi	tion(mm)	Power	r (dBm)				(Y=) Sta	ndard An	tenna	Position		\Box		
Region	Manufacturer	Inlay	IC Chip	Feed Orientation [IC Direction]	×	Y	s	Write	Read	Antenna Selection		Blue		,	ellow		(ireen	
Global	Alien Technology	ALN-9640 "Squiggle"	Alien Higgs3		47.5 to 57	3 to 5	21	24	14	Short	-	to	-	-	to	-	-	to	-
Global	Alien Technology	ALN-9640 "Squiggle"	Alien Higgs3		47.5 to 57	18 to 36	33	16	7	Standard	18	to	23	24	to	29	30	to 3	36
Global	Alien Technology	ALN-9662 "Short"	Alien Higgs3	West West	35 to 45	0 to 5	23	24	18	Short	-	to	-	-	to	-	-	to	
Global	Alien Technology	ALN-9662 "Short"	Alien Higgs3		35 to 65	10 to 24	50	24	16	Standard	10	to	14	15	to	20	21		24
FCC	Alien Technology Alien Technology	ALN-9762 "Short" ALN-9762 "Short"	Alien Higgs4 Alien Higgs4		50 to 60 50 to 60	0 to 5	20 43	24	13	Short Standard	15	to	18	19	to	- 22	-		-
ETSI	Alien Technology	ALN-9762 "Short"	Alien Higgs4		- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	_
ETSI	Alien Technology	ALN-9762 "Short"	Alien Higgs4	00-22-00	42 to 58	16 to 32	35	24	17	Standard	16	to	21	22	to	27	28		32
ETSI	Alien Technology	ALN-9610 "Squig"	Alien Higgs3	77	26 to 45	1 to 4	33	24	24	Short	-	to	-	-	to	-	-	to	-
ETSI	Alien Technology	ALN-9610 "Squig"	Alien Higgs3		39 to 45	18 to 30	41	24	18	Standard	18	to	22	23	to	26	27	to 3	30
FCC	Alien Technology	ALN-9710 "Squig"	Alien Higgs4	l A	22.5 to 62	3 to 6	21	24	15	Short	-	to	-	-	to	-	-	to	-
FCC	Alien Technology	ALN-9710 "Squig"	Alien Higgs4		22.5 to 37	14 to 28	80	23	20	Standard	14	to	18	19	to	24	25	to 2	28
ETSI	Alien Technology	ALN-9710 "Squig"	Alien Higgs4		26 to 45	2 to 5	33	24	23	Short	-	to	-	-	to	-	-	to	-
ETSI	Alien Technology	ALN-9710 "Squig"	Alien Higgs4	#11/2-1111	39 to 45	18 to 30	43	24	24	Standard	18	to	21	22	to	25	26		30
FCC	Alien Technology	ALN-9720 "HiScan"	Alien Higgs4		19.5 to 59	0 to 3	31	24	18	Short	-	to	-	-	to	-	-	_	-
FCC	Alien Technology	ALN-9720 "HiScan"	Alien Higgs4	#10/7/00	34.5 to 59	14 to 32	80	24	17	Standard	14	to	17	18	to	24	25		-
ETSI	Alien Technology Alien Technology	ALN-9720 "HiScan" ALN-9720 "HiScan"	Alien Higgs4 Alien Higgs4		23 to 42 31 to 42	0 to 2 14 to 32	29 45	24	24	Short Standard	14	to	20	21	to	26	27		32
Global	Alien Technology	ALN-9654 "G Tag"	Alien Higgs3		46.5 to 56.5	1 to 10	25	20	17	Short	-	to	-	-	to	-	-	to	-
Global	Alien Technology	ALN-9654 "G Tag"	Alien Higgs3		46.5 to 61.5	14 to 30	58	14	10	Standard	14	to	18	19	to	24	25		30
FCC	Alien Technology	ALN-9728 "Garment Tag"	Alien Higgs4	[im]	22.5 to 37.5	0 to 5	36	23	15	Short	-	to	-	-	to	-	-	to	-
FCC	Alien Technology	ALN-9728 "Garment Tag"	Alien Higgs4		22.5 to 62.5	6 to 19	105	24	18	Standard	6	to	9	10	to	14	15	to 1	19
ETSI	Alien Technology	ALN-9728 "Garment Tag"	Alien Higgs4	MI	26.5 to 35.5	0 to 5	35	24	17	Short	-	to	-	-	to	-	-	to	-
ETSI	Alien Technology	ALN-9728 "Garment Tag"	Alien Higgs4		39.5 to 45.5	18 to 36	43	24	15	Standard	18	to	24	25	to	30	31	to 3	36
FCC	Alien Technology	ALN-9728-90 "Garment Tag"	Alien Higgs4	豆	- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-		-
FCC	Alien Technology	ALN-9728-90 "Garment Tag"	Alien Higgs4	_	15 to 35	24 to 37	85	18	10	Standard	-	to		24	to	30	31		37
ETSI	Alien Technology	ALN-9728-90 "Garment Tag"	Alien Higgs4	<u> </u>	19 to 28	7 to 10	61	20	15	Short	-	to		-	to	-	-		-
FCC	Alien Technology	ALN-9728-90 "Garment Tag" ALN-9730 "Squiglette"	Alien Higgs4	100000G-500000	19 to 33	22 to 45	75	20	13	Standard	22	to	30	31	to	38	39	_	45
FCC	Alien Technology Alien Technology	ALN-9730 "Squiglette"	Alien Higgs4 Alien Higgs4		55 to 55	17 to 24	26	24	11	Short Standard	17	to	20	21	to	24	-	to	
ETSI	Alien Technology	ALN-9730 "Squiglette"	Alien Higgs4		- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	_
ETSI	Alien Technology	ALN-9730 "Squiglette"	Alien Higgs4	20000000200000000	52 to 58	21 to 26	27	24	13	Standard	21	to	23	24	to	26	-	to	-
Global	Alien Technology	ALN-9630 "Squiglette"	Alien Higgs3		40 to 55	0 to 4	22	24	16	Short	-	to	-	-	to	-	-	to	-
Global	Alien Technology	ALN-9630 "Squiglette"	Alien Higgs3		40 to 70	15 to 33	59	24	17	Standard	15	to	23	24	to	28	29	to 3	33
FCC	Alien Technology	ALN-9874-WRW "Tread"	Alien HiggsEC	[IC Facing UP]	44 to 53	3 to 8	53	20	20	Short	-	to	-	-	to	-	-	to	-
FCC	Alien Technology	ALN-9874-WRW "Tread"	Alien HiggsEC	[IC Facing UP]	44 to 58	2 to 7	49	10	10	Standard	16	to	21	-	to	-	-	to	-
FCC	Alien Technology	ALN-9827-WRW "GT-L"	Alien HiggsEC	[IC Facing Up]	29 to 43	2 to 4	39	21	21	Short	-	to	-	-	to	-	-	to	
FCC	Alien Technology	ALN-9827-WRW "GT-L"	Alien HiggsEC	[IC Facing Up]	29 to 43	2 to 7	69	18	15	Standard	16	to	21	-	to	-	-	to	-
FCC	Alien Technology	ALN-9830-WRW "Squiglette"	Alien HiggsEC	[IC Facing Up]	39 to 53	2 to 5	29	20	20	Short	-	to	-	-	to	-	-	_	-
FCC	Alien Technology Alien Technology	ALN-9830-WRW "Squiglette" ALN-9835-WRW "Express"	Alien HiggsEC	[IC Facing Up]	39 to 53	17 to 22 2 to 3	54 27	17 20	17 20	Standard Short	16	to	21	-	to to	-	-	to to	-
FCC	Alien Technology	ALN-9835-WRW "Express"	Alien HiggsEC Alien HiggsEC	[IC Facing Up]	39 to 53	16 to 21	41	14	14	Standard	16	to	21	-	to	-		to	
FCC	Alien Technology	ALN-9840-WRW "Squiggle"	Alien HiggsEC	[IC Facing Up]	51.4 to 60.4	2 to 6	20	23	21	Short	-	to	-	_	to	-	-		_
FCC	Alien Technology	ALN-9840-WRW "Squiggle"	Alien HiggsEC	[IC Facing Up]	51.4 to 60.4	21 to 26	23	9	9	Standard	16	to	21	-	to	-	-	to	
FCC	Alien Technology	ALN-9841-WRW "Doc"	Alien HiggsEC		NG to	to		-	-	Short	-	to	-	-	to	-	-		-
FCC	Alien Technology	ALN-9841-WRW "Doc"	Alien HiggsEC	[IC Facing Up]	51.5 to 60.5	21 to 26	23	14	14	Standard	16	to	21	-	to	-	-	to	-
FCC	Alien Technology	ALN-9862-WRW "Short"	Alien HiggsEC	[IC Facing Up]	39 to 53	2 to 6	42	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Alien Technology	ALN-9862-WRW "Short"	Alien HiggsEC	[IC Facing Up]	39 to 53	14 to 19	36	14	14	Standard	16	to	21	-	to	-	-	to	-
Global	Alien Technology	ALN-9662-FWRWA*Short*	Alien Higgs3	[IC Facing Below]	to	to	u			Short	-	to	-	-	to	-	-	to	-
Global	Alien Technology	ALN-9662-FWRWA"Short"	Alien Higgs3	[IC Facing Below]	42 to 48	16 to 39	40	24	16	Standard	16	to	23	24	to	31	32	to 3	39
NG	Alien Technology	ALN-9634-FWRW	Alien Higgs3	[IC Facing Up]	- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
FCC	Alien Technology	ALN-9634-FWRW	Alien Higgs3	[IC Facing Up]	28 to 37	25 to 29	75	24	16	Standard	25	to	29	-	to	-	-	to	-
NG	Alien Technology	ALN-9634-FWRW	Alien Higgs3	[IC Facing Up]	- to -	- to -	75	-	-	Short	-	to	-	-	to	-	-		-
FCC	Alien Technology	ALN-9634-FWRW ALN-9714-WRW "Bio"	Alien Higgs3	[IC Facing Up]	28 to 37	25 to 29	75	24	18	Standard	25	to	29	-	to			to	
FCC	Alien Technology Alien Technology	ALN-9714-WRW "Bio" ALN-9714-WRW "Bio"	Alien Higgs4 Alien Higgs4	[IC Facing Up]	7.5 to 21.5	- to -	34	24	24	Short Standard	26	to	29	30	to	33	-		-
FCC	Alien Technology	ALN-9714-WRW BIO ALN-9716-WRW "Pearl"	Alien Higgs4	[IC Facing Up]	7.5 to 21.5	- to -	-	-	-	Short	-	to	- 27	-	to	-	-		_
FCC	Alien Technology	ALN-9716-WRW "Pearl"	Alien Higgs4	[IC Facing Up]	38 to 49	17 to 31	34	24	24	Standard	17	to	21	22	to	26	27	to 3	_
FCC	Alien Technology	ALN-9741-WRW "Doc"	Alien Higgs4		- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-		-
FCC	Alien Technology	ALN-9741-WRW "Doc"	Alien Higgs4	[IC Facing Up]	51.5 to 60.5	24 to 38	27	17	17	Standard	24	to	28	29	to	33	34	to 3	
FCC	Alien Technology	ALN-9745-WRW "SlimLine"	Alien Higgs4	[IC Facing Up]	51 to 60	12 to 15	21	20	20	Short	-	to	-	-	to	-	-	_	-
FCC	Alien Technology	ALN-9745-WRW "SlimLine"	Alien Higgs4	[IC Facing Up]	51 to 60	25 to 39	28	9	9	Standard	25	to	29	30	to	34	35	to 3	19
FCC	Alien Technology	ALN-9768-WRW "Wonder Dog"	Alien Higgs4	[IC Facing Up]	65 to 66	7 to 10	31	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Alien Technology	ALN-9768-WRW "Wonder Dog"	Alien Higgs4	[IC Facing Up]	47 to 66	18 to 32	61	12	12	Standard	18	to	22	23	to	27	28	to 3	.2
FCC	Alien Technology	ALN-9770-WRW "Bat"	Alien Higgs4	[IC Facing Up]	45.25 to 59.25	4 to 7	37	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Alien Technology	ALN-9770-WRW "Bat"	Alien Higgs4	[IC Facing Up]	45.25 to 64.25	10 to 24	54	20	20	Standard	10	to	14	15	to	19	20		!4
FCC	Alien Technology	ALN-9816-WRW "Pearl"	Alien HiggsEC	[IC Facing Up]	- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-		-
FCC	Alien Technology	ALN-9816-WRW "Pearl"	Alien HiggsEC	[IC Facing Up]	38 to 49	17 to 31	34	22	22	Standard	17	to	21	22	to	26	27	to 3	
FCC	Alien Technology	ALN-9954-WRW "G"	Alien Higgs9	[IC Facing Up]	50.5 to 54.5	9 to 12	37	15	15	Short	-	to	-	-	to	-	-		-
FCC	Alien Technology	ALN-9954-WRW "G"	Alien Higgs9	[IC Facing Up]	50.5 to 54.5	13 to 30	33	8	8	Standard	13	to	18	19	to	24	25	to 3	0

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	I	I			Posi	tion(mm)		Power	r (dBm)			Blue	(Y=) Sta	andard An	tenna Yellow			Green	_
Region	Manufacturer	Inlay	IC Chip	Feed Orientation [IC Direction]	x	Y	s	Write	Read	Antenna Selection		Diue			ellow			Green	
FCC	Alien Technology Alien Technology	ALN-9828-WRW "GT" ALN-9828-WRW "GT"	Alien HiggsEC	[IC Facing Up]	28 to 47 36 to 47	9 to 11 15 to 29	47 53	24 17	24 17	Short Standard	15	to	19	- 20	to	- 24	- 25	to	- 29
FCC	Alien Technology	ALN-9825-WRW "Gecko"	Alien HiggsEC	[IC Facing Up]	18.5 to 37.5	10 to 12	29	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Alien Technology	ALN-9825-WRW "Gecko"	Alien HiggsEC	[IC Facing Up]	31.5 to 37.5	15 to 29	34	19	19	Standard	15	to	19	20	to	24	25	to	29
ETSI	Alien Technology Alien Technology	ALN-9740 "Squiggle" ALN-9740 "Squiggle"	Alien Higgs4 Alien Higgs4	\$WC===	- to - 51.5 to 55	- to -	31	- 24	- 15	Short Standard	20	to	24	- 25	to	- 29	30	to	34
Global	Alien Technology	ALN-9728-35WRW P33xW53 Label	Alien Higgs4	[IC Facing Up]	- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
Global	Alien Technology	ALN-9728-35WRW P33xW53 Label	Alien Higgs4	[IC Facing Up]	26 to 26	1.5 to 1.5	35	24	16	Standard	1.5 Foremost Blue	to	1.5 Foremost Blue	-	to	-	-	to	-
Global	Alien Technology	ALN-9726-WRW P33xW53 Label	Alien Higgs4	[IC Facing Up]	28 to 28	1.5 to 1.5	35	24	17	Short	-	to	-	-	to	-	-	to	-
Global	Alien Technology	ALN-9726-WRW P33xW53 Label	Alien Higgs4	[IC Facing Up]	- to -	- to -	- 44	-	-	Standard	-	to	-	-	to	-	-	to	-
ETSI	Alien Technology Alien Technology	ALN-9726-WRW ALN-9726-WRW	Alien Higgs4 Alien Higgs4	[IC Facing Up]	29 to 48 29 to 48	7 to 11 28 to 32	45	24	24	Short Standard	28	to	32	-	to	-	-	to	-
Global	Alien Technology	ALN-9768-WRW	Alien Higgs4	[IC Facing UP]	- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
Global	Alien Technology	ALN-9768-WRW	Alien Higgs4	[IC Facing Up]	47 to 61	17 to 33	46	6	6	Standard	17	to	22	23	to	28	29	to	33
FCC	Alien Technology Alien Technology	ALN-9715-WRW ALN-9715-WRW	Alien Higgs4	[IC Facing UP]	36 to 37	3 to 5 20 to 21	25 40	24	24	Short Standard	20	to	21	-	to	-	-	to	-
ETSI	Alien Technology	ALN-9715-WRW	Alien Higgs4	[IC Facing UP]	- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
ETSI	Alien Technology	ALN-9715-WRW	Alien Higgs4	[IC Facing Up]	36 to 37	17 to 26	30	24	23	Standard	17	to	22	23	to	26	-	to	-
Global	Arizon	AZ-9762	Alien Higgs4		35 to 50	0 to 3	25	24	19	Short	-	to	-	-	to	-	-	to	-
Global	Arizon	AZ-9762 AZ-C6	Alien Higgs4 Impinj MonzaR6	FIC Facing UP)	40 to 65 28 to 29	11 to 36 9 to 12	48 20	24	17 24	Standard Short	- 11	to	19	20	to	28	29	to	36
FCC	Arizon	AZ-C6	Impinj MonzaR6	[IC Facing UP]	14 to 15	26 to 38	25	24	19	Standard	26	to	29	30	to	33	34	to	38
ETSI	Arizon	AZ-C6	Impinj MonzaR6	[IC Facing UP]	23 to 24	9 to 12	16	24	24	Short	-	to	-	-	to	-	-	to	-
ETSI	Arizon	AZ-C6	Impinj MonzaR6	[IC Facing Up]	14 to 19	25 to 38	30	24	18	Standard	25	to	29	30	to	34	35	to	38
FCC	Arizon Arizon	AZ-H7 with Paper AZ-H7 with Paper	NXP UCODE 7	[IC Facing Below]	41 to 47 41 to 47	3 to 5 18 to 32	40 70	24 17	24 17	Short Standard	18	to	22	23	to	27	28	to	32
ETSI	Arizon	AZ-H7 with Paper	NXP UCODE 7	[IC Facing Below]	41 to 47	3 to 5	35	24	24	Short	-	to	-	-	to	-	-	to	-
ETSI	Arizon	AZ-H7 with Paper	NXP UCODE 7	[IC Facing Below]	41 to 47	18 to 32	35	17	17	Standard	18	to	22	23	to	27	28	to	32
FCC	Arizon	AZ-M61-1+MR6-P Dry AZ-M61-1+MR6-P Dry	Impinj MonzaR6-P Impinj MonzaR6-P	[IC Facing Up]	24 to 28 32 to 43	8 to 10 19 to 33	29 37	24	24	Short	8 19	to	10	-	to to	-	-	to	- 22
ETSI	Arizon Arizon	AZ-M61-1+MR6-P Dry AZ-M61-1+MR6-P Dry	Impinj MonzaR6-P	[IC Facing Up]	32 to 43 34 to 34	19 to 33 9 to 11	30	18 24	18 24	Standard Short	9	to	23 11	24	to	28	29	to	33
ETSI	Arizon	AZ-M61-1+MR6-P Dry	Impinj MonzaR6-P	[IC Facing Up]	32 to 43	19 to 33	41	16	16	Standard	19	to	23	24	to	28	29	to	33
FCC	Arizon	AZ-F7+U7	NXP UCODE 7	[IC Facing Below]	- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
FCC	Arizon	AZ-F7+U7 AZ-F7+U7	NXP UCODE 7	[IC Facing Below]	17 to 18	22 to 36	42	23	23	Standard Short	22	to	26	26 -	to	30	32	to	36
ETSI	Arizon	AZ-F7+U7	NXP UCODE 7	[IC Facing Below]	35 to 36	15 to 24	34	21	21	Standard	15	to	19	17	to	21	20	to	24
FCC	Arizon	AZ-H7 U7	NXP UCODE 7	The rucing below)	to	to				Standard	-	to	-	-	to	-	-	to	-
Global	Avery Dennison	AD-110m5	Impinj Monza5		21.5 to 46.5	4 to 11	22	24	16	Short	-	to	-	-	to	-	-	to	-
Global	Avery Dennison Avery Dennison	AD-110m5 AD-171m5	Impinj Monza5 Impinj Monza5	[C-7]	36.5 to 46.5 13.5 to 53.5	11 to 32 7 to 10	65 18	24	20 16	Standard Short	- 11	to	17	18	to	25	26	to	32
FCC	Avery Dennison	AD-171m5	Impinj Monza5		13.5 to 23.5	11 to 35	60	24	19	Standard	11	to	18	19	to	27	28	to	35
ETSI	Avery Dennison	AD-171m5	Impinj Monza5		20.5 to 36.5	11 to 14	37	24	24	Short	-	to	-	-	to	-	-	to	-
ETSI	Avery Dennison	AD-171m5	Impinj Monza5		17.5 to 21.5	10 to 35	50	24	24	Standard	10	to	21	22	to	28	29	to	35
Global	Avery Dennison Avery Dennison	AD-227m5 AD-227m5	Impinj Monza5		47.5 to 57.5 47.5 to 57.5	0 to 10 13 to 36	31	24 16	19 11	Short Standard	13	to	20	21	to to	28	29	to	36
Global	Avery Dennison	AD-232iL	NXP UCODE G2iL		- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
Global	Avery Dennison	AD-232iL	NXP UCODE G2iL		45 to 70	12 to 35	62	24	16	Standard	12	to	19	20	to	27	28	to	35
FCC	Avery Dennison Avery Dennison	AD-233m5 AD-233m5	Impinj Monza5 Impinj Monza5		40 to 55 40 to 70	0 to 4	63	24	19 17	Short Standard	15	to	21	- 22	to	29	30	to	37
ETSI	Avery Dennison	AD-233m5	Impinj Monza5		40 to 58	6 to 8	38	24	24	Short	-	to	-	-	to	-	-	to	-
ETSI	Avery Dennison	AD-233m5	Impinj Monza5		42 to 58	17 to 39	40	24	24	Standard	17	to	24	25	to	31	32	to	39
Global	Avery Dennison	AD-235u7	NXP UCODE 7		35 to 50	0 to 5	20	24	12	Short	-	to	-	-	to	-	-	to	-
Global	Avery Dennison Avery Dennison	AD-235u7 AD-318m5	NXP UCODE 7 Impinj Monza5	MGM	35 to 65 21 to 46	10 to 40 0 to 3	59 31	19	12 19	Standard Short	10	to	20	21	to	30	31	to	40
FCC	Avery Dennison	AD-318m5	Impinj Monza5	1000 0001	31 to 61	0 to 3	52	23	19	Standard	11	to	17	18	to	24	25	to	31
ETSI	Avery Dennison	AD-318m5	Impinj Monza5	MGM	25 to 44	13 to 16	45	24	24	Short	-	to	-	-	to	-	-	to	-
ETSI	Avery Dennison	AD-318m5	Impinj Monza5	=	28 to 44	16 to 34	63	24	20	Standard	16	to	22	23	to	29	30	to	34
FCC	Avery Dennison Avery Dennison	AD-370u7 AD-370u7	NXP UCODE 7		- to - 18.5 to 48.5	- to -	- 86	17	- 14	Short Standard	67	to	79	80	to to	90	-	to	-
ETSI	Avery Dennison	AD-370u7	NXP UCODE 7		12.5 to 21.5	9 to 11	41	20	10	Short	-	to	-	-	to	-	-	to	-
ETSI	Avery Dennison	AD-370u7	NXP UCODE 7		12.5 to 26.5	0 to 13	60	20	9	Standard	0	to	3	4	to	9	10	to	13
FCC	Avery Dennison	AD-226iL AD-226iL	NXP UCODE G2iL		47.5 to 57.5 47.5 to 62.5	0 to 10 16 to 37	24 41	24	19 15	Short	16	to	- 22	- 23	to	- 29	- 30	to	- 37
ETSI	Avery Dennison Avery Dennison	AD-226iL	NXP UCODE G2IL		47.5 to 62.5 51.5 to 55.5	16 to 37 5 to 14	23	23	17	Standard Short	-	to	-	-	to to	-	-	to	37
ETSI	Avery Dennison	AD-226IL	NXP UCODE G2iL		51.5 to 55.5	17 to 32	39	20	17	Standard	17	to	24	25	to	32	-	to	-
Global	Avery Dennison	AD-317iL	NXP UCODE G2iL		- to -	- to -		-	-	Short	-	to	-	-	to	-	-	to	-
Global	Avery Dennison Avery Dennison	AD-317iL AD-236u7	NXP UCODE G2iL		35.5 to 60.5 40 to 70	10 to 33 0 to 7	50 24	24	16 16	Standard Short	10	to	17	18	to to	25	26	to	33
FCC	Avery Dennison	AD-236u7	NXP UCODE 7		40 to 50	8 to 31	37	18	8	Standard	8	to	15	16	to	23	24	to	31
	Avery Dennison	AD-236u7	NXP UCODE 7		39 to 48	8 to 10	45	24	24	Short	-	to	-	-	to	-	-	to	-
ETSI		AD-236u7	NXP UCODE 7	Bood	39 to 48	12 to 40	47	24	20	Standard	12	to	21	22	to	30	31	to	40
ETSI	Avery Dennison	AD 280II	MVD PCOFF TO		- to -	-	- 55	24	15	Short Standard	10	to	-		to	-	-	to	
	Avery Dennison	AD-380iL AD-380iL	NXP UCODE G2iL	hen	42 to 48	16 to 26					16	to	19	20	to	23	24	to	26
ETSI	-			11 25 11	42 to 48 15 to 24	16 to 26	30	24	18	Short	-	to	19	-	to to	23 -	24 -	to	- 26
ETSI ETSI ETSI FCC FCC	Avery Dennison Avery Dennison Avery Dennison Avery Dennison	AD-380iL AD-172u7 AD-172u7	NXP UCODE 7	[IC Strap Facing UP]	15 to 24 14 to 19	11 to 12 24 to 37	30 65	24 24	18 15	Short Standard	- 24	to to	19 - 28	- 29	to to	- 32	- 34	to to	- 37
ETSI ETSI ETSI FCC FCC ETSI	Avery Dennison Avery Dennison Avery Dennison Avery Dennison Avery Dennison	AD-380iL AD-172u7 AD-172u7 AD-172u7	NXP UCODE 7 NXP UCODE 7 NXP UCODE 7 NXP UCODE 7	[IC Strap Facing UP] [IC Strap Facing UP] [IC Strap Facing UP]	15 to 24 14 to 19 15 to 24	11 to 12 24 to 37 10 to 11	30 65 35	24 24 24	18 15 16	Short Standard Short	- 24 -	to to	- 28 -	- 29 -	to to	- 32 -	- 34 -	to to	- 37 -
ETSI ETSI ETSI FCC FCC	Avery Dennison Avery Dennison Avery Dennison Avery Dennison	AD-380iL AD-172u7 AD-172u7	NXP UCODE 7	[IC Strap Facing UP] [IC Strap Facing UP] [IC Strap Facing UP] [IC Strap Facing UP]	15 to 24 14 to 19	11 to 12 24 to 37	30 65	24 24	18 15	Short Standard	-	to to	-	- 29	to to	- 32	- 34	to to	- 37
ETSI ETSI ETSI FCC FCC ETSI ETSI	Avery Dennison Avery Dennison Avery Dennison Avery Dennison Avery Dennison Avery Dennison	AD-172u7 AD-172u7 AD-172u7 AD-172u7	NXP UCODE GZIL NXP UCODE 7 NXP UCODE 7 NXP UCODE 7 NXP UCODE 7	(IC Strap Facing UP) (IC-Strap Facing UP) (IC-Strap Facing UP)	15 to 24 14 to 19 15 to 24 14 to 18	11 to 12 24 to 37 10 to 11 25 to 40	30 65 35 50	24 24 24 24	18 15 16 13	Short Standard Short Standard	- 24 - 25	to to to	- 28 - 29	- 29 - 30	to to to	- 32 - 35	- 34 - 36	to to to to	- 37 - 40
ETSI ETSI FCC FCC ETSI ETSI FTSI FCC	Avery Dennison	AD-380iL AD-172u7 AD-172u7 AD-172u7 AD-172u7 AD-172u7 AD-238u8_Label	NXP UCODE G2IL NXP UCODE 7 NXP UCODE 7 NXP UCODE 7 NXP UCODE 7 NXP UCODE 8	[IC Strap Facing UP]	15 to 24 14 to 19 15 to 24 14 to 18 - to -	11 to 12 24 to 37 10 to 11 25 to 40 - to -	30 65 35 50	24 24 24 24 -	18 15 16 13	Short Standard Short Standard Short Standard	- 24 - 25	to to to to	- 28 - 29	29 - 30	to to to to to	- 32 - 35 -	- 34 - 36	to to to to to	- 37 - 40

2/4

2021/3/4 Edition SATO CORPORATION

	I	I			Posi	tion(mm)		Power	r (dBm)	Ī		Blue	(Y=) St	andard A	ntenna	Positio		Green	\Box
Region	Manufacturer	Inlay	IC Chip	Feed Orientation [IC Direction]	×	Y	s	Write	Read	Antenna Selection		biue			reliow		,	reen	
FCC	Avery Dennison	AD-810r6 WhiteWet [RF601144]	Impinj MonzaR6	[IC-Strap Facing Below]	12 to 31	10 to 12	27	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Avery Dennison Avery Dennison	AD-810r6 WhiteWet [RF601144] AD-163u8 WhiteWet	Impinj MonzaR6	[IC-Strap Facing Below]	20 to 31 39 to 58	26 to 37	56 37	23	23	Standard Short	26	to	29	30	to to	33	34	to	37
FCC	Avery Dennison	AD-163u8 WhiteWet	NXP UCODE 8	[IC Facing UP]	39 to 58	24 to 38	45	21	18	Standard	24	to	28	29	to	33	34	to	38
FCC	Avery Dennison	AD-663u7xm2k PaperLabel	NXP UCODE 7xm2k	[IC-Strap Facing UP]	- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
FCC	Avery Dennison	AD-663u7xm2k PaperLabel	NXP UCODE 7xm2k	[IC-Strap Facing UP]	49 to 63	16 to 27	37	16	16	Standard	16	to	19	20	to	23	24	to	27
Global	SMARTRAC SMARTRAC	DogBone i DogBone i	NXP UCODE GZIL/IM	-	- to -	- to -	50	24	9	Short Standard	1	to	10	- 11	to	20	21	to	30
Global	SMARTRAC	Short Dipole i	NXP UCODE G2IL/IM		- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Short Dipole i	NXP UCODE G2IL/IM		46.5 to 56.5	14 to 34	45	24	11	Standard	14	to	20	21	to	27	28	to	34
Global	SMARTRAC SMARTRAC	ShortDipole M4 ShortDipole M4	Impinj Monza4(E/D/QT)	⊚∪ (⊑⊃)∩⊚	46.5 to 56.5	0 to 1 12 to 36	16 48	24	13 15	Short	12	to	20	- 21	to	- 28	- 29	to	36
Global	SMARTRAC	Belt M5	Impinj Monza4(E/D/QT) Impinj Monza5	W and	35 to 40	0 to 3	23	24	16	Standard Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Belt M5	Impinj Monza5		40 to 70	11 to 35	60	24	13	Standard	11	to	18	19	to	26	27	to	35
Global	SMARTRAC	MiniWeb i	NXP UCODE G2IL/IM		- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC SMARTRAC	MiniWeb i Web i	NXP UCODE GZIL/IM	20	45 to 60	18 to 35 9 to 11	47 60	24	12 11	Standard Short	18	to	23	24	to	29	30	to	35
FCC	SMARTRAC	Web i	NXP UCODE G2iL	62	12.5 to 27.5	34 to 49	93	24	12	Standard	-	to	-	34	to	41	42	to	49
ETSI	SMARTRAC	Web i	NXP UCODE G2iL	30	16.5 to 35.5	10 to 15	67	24	16	Short	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC	Web i	NXP UCODE G2iL	\$0002*5000A	16.5 to 25.5	18 to 47	86	24	15	Standard	18	to	28	29	to	38	39	to	47
FCC	SMARTRAC SMARTRAC	WebLite M5 WebLite M5	Impinj Monza5		23 to 33	0 to 5	36 45	24	23 18	Short Standard	14	to	21	22	to	29	30	to	37
ETSI	SMARTRAC	WebLite M5	Impinj Monza5	P.	26 to 27	0 to 2	20	23	23	Short	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC	WebLite M5	Impinj Monza5		26 to 27	10 to 17	30	24	24	Standard	10	to	13	14	to	17	-	to	-
Global	SMARTRAC	Viper M4D	Impinj Monza4D	per little og de sandere en	55 to 55	0 to 10	20	24	16	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC SMARTRAC	Viper M4D Frog 3D M4	Impinj Monza4D	88	55 to 55 25 to 30	15 to 35	25 60	10 24	7 19	Standard Short	15	to	21	- 22	to to	28	29	to	35
Global	SMARTRAC	Frog 3D M4	Impinj Monza4(E/D/QT) Impinj Monza4(E/D/QT)		25 to 40	7 to 36	82	20	17	Standard	7	to	16	17	to	26	27	to	36
Global	SMARTRAC	Belt iL	NXP UCODE G2iL		- to -	- to -	-	-	-	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Belt iL	NXP UCODE G2iL		50 to 55	16 to 36	41	24	15	Standard	16	to	22	23	to	29	30	to	36
Global	SMARTRAC SMARTRAC	Dogbone M4QT Dogbone M4QT	Impinj Monza4QT Impinj Monza4QT	1-100-1	- to -	- to -	36	- 8	- 8	Short Standard	13	to	19	20	to	25	26	to	31
Global	SMARTRAC	ShortDipole M5	Impinj Monza5	900000	46 to 56	0 to 3	19	20	18	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	ShortDipole M5	Impinj Monza5		46 to 61	20 to 34	31	10	9	Standard	20	to	24	25	to	29	30	to	34
FCC	SMARTRAC	Trap NF M5	Impinj Monza5	ā	15 to 20	4 to 6	30	24	19	Short	- 16	to	19	-	to	-	-	to	-
FCC ETSI	SMARTRAC SMARTRAC	Trap NF M5	Impinj Monza5	Ō	14 to 19	16 to 19	33	24	20	Standard Short	Foremot Blue	to	Foremot Blue	-	to	-	-	to	-
ETSI	SMARTRAC	Trap NF M5	Impinj Monza5	ы	16 to 27	20 to 27	41	24	23	Standard	20	to	22	23	to	27	-	to	-
FCC	SMARTRAC	Web-U7	NXP UCODE 7	ilizii	29 to 45	2 to 8	35	17	17	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	Web-U7	NXP UCODE 7	lorend.	29 to 38	0 to 5	42	16	10	Standard	O Foremost Rive	to	5 Foremost Rive	-	to	-	-	to	-
ETSI	SMARTRAC SMARTRAC	Web-U7	NXP UCODE 7	UDI	29 to 48 29 to 48	4 to 7 2 to 17	43 53	24	24 19	Short Standard	2	to	6	7	to	12	13	to	17
Global	SMARTRAC	Web-U7 P34xW54 Label	NXP UCODE 7	[IC Facing Up]	30 to 30	1.5 to 1.5	40	24	16	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Web-U7 P34xW54 Label	NXP UCODE 7	[IC Facing Up]	- to -	- to -	-	-	-	Standard	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC	Web-U7	NXP UCODE 7	[IC Facing Up]	29 to 48 32 to 48	0 to 3	30	24	19	Short	-	to	-	- 12	to	-	-	to	-
Global	SMARTRAC SMARTRAC	Web-U7 Belt-U7 P13xW73 Paper Tag	NXP UCODE 7	[IC Facing Up]	32 to 48 40 to 40	1 to 30	55 20	23	20 17	Standard Short	-	to	- 11	12	to	21	- 22	to	30
Global	SMARTRAC	Belt-U7 P13xW73 Paper Tag	NXP UCODE 7	[IC Facing Up]	- to -	- to -	-	-	-	Standard	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC	Belt-U7	NXP UCODE 7	[IC Facing Up]	40.5 to 54.5	1 to 4	26	24	23	Short	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC SMARTRAC	Belt-U7 Web-iM	NXP UCODE 7 NXP UCODE G2IM	[IC Facing Up]	40.5 to 59.5	15 to 37	50	23	20	Standard Short	15	to	22	23	to	30	31	to	37
ETSI	SMARTRAC	Web-IM	NXP UCODE G2IM	[IC Facing Up]	24.5 to 30.5	26 to 37	71	24	16	Standard	-	to	-	26	to	31	32	to	37
Global	SMARTRAC	Belt-M5 P39xW93 Tag	Impinj Monza5	[IC Facing Up]	48.5 to 48.5	4.5 to 4.5	39	24	16	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Belt-M5 P39xW93 Tag	Impinj Monza5	[IC Facing Up]	- to -	- to -	-	-	-	Standard	-	to	-	-	to	-	-	to	-
Global	SMARTRAC SMARTRAC	WebLite-M5 P39xW93 Tag WebLite-M5 P39xW93 Tag	Impinj Monza5	[IC Facing Up]	36.5 to 36.5	6.5 to 6.5	39	24	23	Short Standard	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Belt-U7 P39xW93 Tag	NXP UCODE 7	[IC Facing Up]	48.5 to 48.5	3 to 3	39	20	17	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Belt-U7 P39xW93 Tag	NXP UCODE 7	[IC Facing Up]	- to -	- to -	-	-	-	Standard	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	WebLite-M5 P18xW49 PaperFag	Impinj Monza5	[IC Facing Up]	26.5 to 26.5	2 to 2	20	24	20	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC SMARTRAC	WebLite-M5 P18xW49 PaperFag MiniWeb-U7	Impinj Monza5 NXP UCODE 7	[IC Facing Up]	- to -	- to - 9 to 12	- 45	24	- 24	Standard Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	MiniWeb-U7	NXP UCODE 7	[IC Facing Up]	35 to 46	14 to 37	65	17	17	Standard	14	to	21	22	to	29	30	to	37
FCC	SMARTRAC	MiniWeb-U7 P18xW49 Label	NXP UCODE 7	[IC Facing Up]	27 to 27	1 to 1	20	17	17	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	MiniWeb-U7 P18xW49 Label	NXP UCODE 7	[IC Facing Up]	- to -	- to -	-	-	-	Standard	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC SMARTRAC	MiniWeb-U7 P18xW49 Label MiniWeb-U7 P18xW49 Label	NXP UCODE 7	[IC Facing Up]	27 to 27	1 to 1	20	20	20	Short Standard	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Belt-R6 [3003158]	Impinj MonzaR6	[IC Facing Up]	39.5 to 39.5	2 to 3	20	18	18	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	Belt-R6 [3003158]	Impinj MonzaR6	[IC Facing Up]	39.5 to 39.5	16 to 30	45	17	15	Standard	16	to	20	21	to	25	26	to	30
Global	SMARTRAC	MiniWeb FCC-MR6 [3004855]	Impini MonzaR6	[IC Facing UP]	25 to 39	3 to 5	25	24	24	Short	-	to	-	- 21	to	-	- 20	to	- 22
Global	SMARTRAC SMARTRAC	MiniWeb FCC-MR6 [3004855] 60x21 MR6 WhitePET [3005582]	Impinj MonzaR6	[IC Facing Up]	33 to 39 34 to 34	14 to 33 1.5 to 1.5	40 24	20 19	20 19	Standard Short	14	to	20	21	to to	27	28	to	- 33
FCC	SMARTRAC	60x21 MR6 WhitePET [3005582]	Impinj MonzaR6	[IC Facing UP] [IC Facing Up]	10	1.3 8 1.3		\tilde{z}		Standard	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	60x21 MR6 WhitePET [3005582]	Impinj MonzaR6	[IC Facing UP]	40.5 to 45.5	12 to 15	35	24	24	Short	-	to	-	-	to	-	-	to	-
Global	SMARTRAC	60x21 MR6 WhitePET [3005582]	Impinj MonzaR6	[IC Facing Up]	40.5 to 45.5	18 to 44	54	20	20	Standard	18	to	26	27	to	35	36	to	44
FCC	SMARTRAC SMARTRAC	ShortDipole MR6 [3004272] ShortDipole MR6 [3004272]	Impinj MonzaR6	[IC Facing Up]	50.4 to 54.4 50.4 to 54.4	0 to 2 22 to 36	25 35	20 12	20 12	Short Standard	22	to	26	- 27	to	31	32	to	36
ETSI	SMARTRAC	ShortDipole MR6 [3004272]	Impinj MonzaR6	[IC Facing Up]	50.4 to 54.4	0 to 2	25	22	22	Short	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC	ShortDipole MR6 [3004272]	Impinj MonzaR6	[IC Facing Up]	50.4 to 54.4	22 to 36	32	12	12	Standard	22	to	26	27	to	31	32	to	36
FCC	SMARTRAC	ShortDipole MR6-P [3005077]	Impinj MonzaR6-P	[IC Facing Up]	50.4 to 58.4	1 to 3	21	20	20	Short	1	to	3	-	to	-	-	to	-
FCC ETSI	SMARTRAC SMARTRAC	ShortDipole MR6-P [3005077] ShortDipole MR6-P [3005077]	Impinj MonzaR6-P Impinj MonzaR6-P	[IC Facing Up]	50.4 to 58.4 50.4 to 58.4	24 to 38 1 to 3	32 27	8 21	8 21	Standard Short	24	to	28 3	29 -	to	33	34	to	38
ETSI	SMARTRAC	ShortDipole MR6-P [3005077]	Impinj MonzaR6-P	[IC Facing Up]	50.4 to 58.4	26 to 40	27	8	8	Standard	26	to	30	31	to	35	36	to	40
FCC	SMARTRAC	Viper M4D	Impinj Monza4D	[IC Facing Up]	59 to 68	12 to 15	27	20	20	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	Viper M4D	Impinj Monza4D	[IC Facing Up]	59 to 68	22 to 36	30	12	12	Standard	22	to	26	27	to	31	32	to	36
FCC	SMARTRAC	DogBone-MR6-P PaperTag	Impinj MonzaR6-P	[IC Facing UP]	- to -	- to -	- 20	-	-	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	DogBone-MR6-P PaperTag	Impinj MonzaR6-P	[IC Facing Up]	46 to 55	16 to 30	38	9	9	Standard	16	to	20	21	to	25	26	to	30

3/4

2021/3/4 Edition SATO CORPORATION

					Position(mm)				Power	(dBm)	ī I	(Y=) Standard Antenna Position [mm]										
				◆ Feed Orientation ◆	x Y s		Write Read		Antenna		Blue			Yellow	'		Green					
Region	Manufacturer	Inlay	IC Chip	[IC Direction]		^		•		S	Write	Read	Antenna Selection									
FCC	SMARTRAC	Belt(FAT)-MR6-P Wet [3006790]	Impinj MonzaR6-P	[IC Facing Up]	39	to 48	9	to	11	28	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	Belt(FAT)-MR6-P Wet [3006790]	Impinj MonzaR6-P	[IC Facing Up]	39	to 58	20	to	34	35	10	10	Standard	20	to	24	25	to	29	30	to	34
FCC	SMARTRAC	MiniWeb FCC-MR6-P [3005081]	Impinj MonzaR6-P	[IC Facing Below]	25	to 44	2	to	4	29	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	MiniWeb FCC-MR6-P [3005081]	Impinj MonzaR6-P	[IC Facing Below]	33	to 44	16	to	27	39	17	17	Standard	16	to	19	20	to	23	24	to	27
ETSI	SMARTRAC	Wings U8 [3007250]	NXP UCODE 8	[IC Facing Up]	40	to 54	7	to	12	57	17	10	Short	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC	Wings U8 [3007250]	NXP UCODE 8	[IC Facing Up]	40	to 54	7	to	12	44	10	6	Standard	16	to	21	-	to	-	-	to	-
FCC	SMARTRAC	Wings U8 [3007250]	NXP UCODE 8	[IC Facing Up]	40	to 54	8	to	13	65	18	14	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	Wings U8 [3007250]	NXP UCODE 8	[IC Facing Up]	40	to 54	8	to	13	40	11	8	Standard	16	to	21	-	to	-	-	to	-
FCC	SMARTRAC	DogBone-U8 Wet [3006910]	NXP UCODE 8	[IC Facing Up]	51	to 60	2	to	6	41	18	15	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	DogBone-U8 Wet [3006910]	NXP UCODE 8	[IC Facing Up]	51	to 60	12	to	17	31	12	9	Standard	12	to	17	-	to	-	-	to	-
ETSI	SMARTRAC	DogBone-U8 Wet [3006910]	NXP UCODE 8	0 . (60)	51	to 60	2	to	7	41	19	12	Short	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC	DogBone-U8 Wet [3006910]	NXP UCODE 8	[IC Facing Up]	51	to 60	12	to	17	31	9	7	Standard	12	to	17	-	to	-	-	to	-
FCC	SMARTRAC	DogBone-U7xm2k Wet [3006763]	NXP UCODE 7xm2k	[IC Facing Up]	0	to 0	0	to	0	0	NG	NG	Short	-	to	-	-	to	-	-	to	-
FCC	SMARTRAC	DogBone-U7xm2k Wet [3006763]	NXP UCODE 7xm2k	[IC Facing Up]	51	to 60	3	to	8	40	16	14	Standard	3	to	8	-	to	-	-	to	-
ETSI	SMARTRAC	DogBone-U7xm2k Wet [3006763]	NXP UCODE 7xm2k	[IC Facing Up]	0	to 0	0	to	0	0	NG	NG	Short	-	to	-	-	to	-	-	to	-
ETSI	SMARTRAC	DogBone-U7xm2k Wet [3006763]	NXP UCODE 7xm2k	[IC Facing Up]	51	to 60	14	to	19	35	12	8	Standard	14	to	19	-	to	-	-	to	-
Global	Invengo	Invengo Great Wall M5	Impinj Monza5		47	to 62	0	to	2	30	24	20	Short	-	to	-	-	to	-	-	to	-
Global	Invengo	Invengo Great Wall M5	Impinj Monza5		47	to 57	11	to	37	36	18	15	Standard	11	to	19	20	to	28	29	to	37
Global	Invengo	Invengo xWing M5	Impinj Monza5	wesw	34.5	to 49.5	2	to	4	25	24	18	Short	-	to	-	-	to	-	-	to	-
Global	Invengo	Invengo xWing M5	Impinj Monza5		39.5	to 64.5	7	to	34	54	20	19	Standard	7	to	15	16	to	24	25	to	34
FCC	Invengo	xWing-M5 P21xW77 Label	Impinj Monza5	[IC Facing Below]	39.5	to 39.5	3.5	to	3.5	30	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Invengo	xWing-M5 P21xW77 Label	Impinj Monza5	[IC Facing Below]	-	to -	-	to	-	-	-	-	Standard	-	to	-	-	to	-	-	to	-
FCC	Invengo	xWing-M5 P21xW77 Label	Impinj Monza5	[IC Facing Below]	41	to 41	0.5	to	0.5	30	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Invengo	xWing-M5 P21xW77 Label	Impinj Monza5	[IC Facing Below]	-	to -	-	to	-	-	-	-	Standard	-	to	-	-	to	-	-	to	-
ETSI	Invengo	xWing-M5	Impinj Monza5	[IC Facing Below]	-	to -	-	to	-	-	-	-	Short	-	to	-	-	to	-	-	to	-
ETSI	Invengo	xWing-M5	Impinj Monza5	[IC Facing Below]	38.5	to 57.5	15	to	32	45	20	17	Standard	15-20	to	15-20	21	to	26	27	to	32
FCC	Invengo	xWing-M5 P35xW76 Label	Impinj Monza5	[IC Facing Below]	40.5	to 40.5	13	to	13	38	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Invengo	xWing-M5 P35xW76 Label	Impinj Monza5	[IC Facing Below]	40.5	to 40.5	13	to	13	38	12	12	Standard	13 Foremost Blue	to	13 Foremost Blue	-	to	-	-	to	-
FCC	Invengo	xWing-M5 P20xW76 Label	Impinj Monza5	[IC Facing Below]	40.5	to 40.5	1	to	1	23.5	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Invengo	xWing-M5 P20xW76 Label	Impinj Monza5	[IC Facing Below]	-	to -	-	to	-	-	-	-	Standard	-	to	-	-	to	-	-	to	-
FCC	Invengo	xWing-U7	NXP UCODE 7	[IC Facing Below]	38.5	to 42.5	0	to	8	35	24	24	Short	-	to	-	-	to	-	-	to	-
FCC	Invengo	xWing-U7	NXP UCODE 7	[IC Facing Below]	38.5	to 42.5	17	to	37	45	24	13	Standard	17	to	23	24	to	30	31	to	37
ETSI	Invengo	xWing-U7	NXP UCODE 7	[IC Facing Below]	38.5	to 42.5	8	to	13	40	24	24	Short	-	to	-	-	to	-	-	to	-
ETSI	Invengo	xWing-U7	NXP UCODE 7	[IC Facing Below]	38.5	to 42.5	17	to	37	45	24	13	Standard	17	to	23	24	to	30	31	to	37
Global	CHECKPOINT	Champion-M5	Impinj Monza5		40	to 45	0	to	2	27	24	19	Short	-	to	-	-	to	-	-	to	-
Global	CHECKPOINT	Champion-M5	Impinj Monza5		40	to 70	8	to	35	58	20	20	Standard	8	to	16	17	to	25	26	to	35
FCC	CHECKPOINT	WindAparrel-M5	Impinj Monza5	240	30	to 45	8	to	11	46	23	20	Short	-	to	-	-	to	-	-	to	-
FCC	CHECKPOINT	WindAparrel-M5	Impinj Monza5		30	to 65	20	to	41	82	16	13	Standard	20	to	26	27	to	34	35	to	41
ETSI	CHECKPOINT	WindAparrel-M5	Impinj Monza5	(29)	37	to 38	10	to	13	53	24	23	Short	-	to	-	-	to	-	-	to	-
ETSI	CHECKPOINT	WindAparrel-M5	Impinj Monza5	#0C-M-20*	29	to 38	0	to	13	75	23	18	Standard	0	to	4	5	to	8	9	to	13
ETSI	SML	GB2U-M5	Impinj Monza5	[IC Facing Up]	-	to -	-	to	-	-	-	-	Short	-	to	-	-	to	-	-	to	-
ETSI	SML	GB2U-M5	Impinj Monza5	[IC Facing Up]	32	to 43	16	to	32	60	23	23	Standard	16	to	21	22	to	27	29	to	32