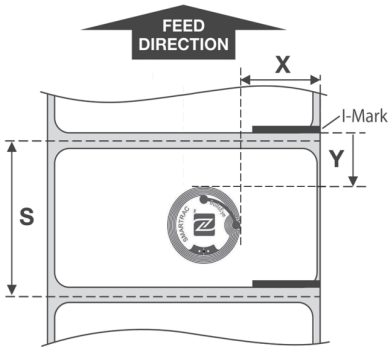
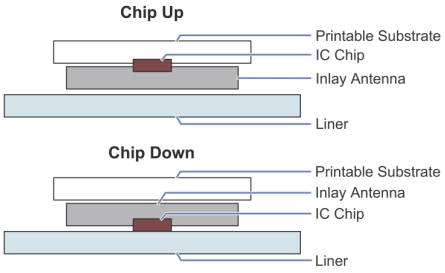
CL4NX **HF Inlay Configuration Guide**

In order to successfully configure your CL4NX HF printer, you will need the following information about your label.

Feed Direction



Chip Orientation



X: Liner edge to inlay antenna edge.
Y: Optimum Encoding Position*
S: Minimum Inlay Separation

*Y: Measured from tail edge of I-mark to lead edge of inlay antenna when I-mark sensor is used.
Measured from lead edge of label to lead edge of inlay antenna when gap sensor is used.

How to check the Configuration Table

Feed direction affects results, and is signified by the images in the following table.

Feed Direction
The arrow in the header of table indicates the direction in which labels are output from the printer.

Manufacturer	Inlay [IC Chip]	▲ Feed Direction ▲ Chip Orientation (Up/Down)	X		Label Measurements (mm) Antenna Position Blue	Yellow	Green
ISO/IEC 15693							
Smartrac	Block [I CODE SLIX]	Up	4-23	Y	0-15	16-23	24-30
				S	85	115	125
Smartrac	BullsEye [I CODE SLIX]	Down	4-23	Y	10-20	21-26	27-30
				S	83	96	108
Smartrac	MiniBlock [I CODE SLIX]	Up	7-23	Y	23-28	29-32	33-36
				S	43	74	78
Smartrac	MiniTrack [I CODE SLIX]	Up	7-23	Y	13-22	23-28	29-33
				S	56	91	95

The values of “Y” and “S” will affect printer configuration with regard to Antenna Position.

Antenna Positions determined by the values of “Y” and “S”.

CL4NX HF Inlay Placement & Configuration Table

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.

First edition: Jun 2015

Feed Direction
The arrow in the header of table indicates the direction in which labels are output from the printer.

Manufacturer	Inlay [IC Chip]	Feed Direction ▲ Chip Orientation (Up/Down)	Label Measurements (mm)				
			X		Antenna Position		
					Blue	Yellow	Green
ISO/IEC 15693							
Smartrac	Block [I CODE SLIX]	 Up	4-23	Y	0-15	16-23	24-30
				S	85	115	125
Smartrac	BullsEye [I CODE SLIX]	 Down	4-23	Y	10-20	21-26	27-30
				S	83	96	108
Smartrac	MiniBlock [I CODE SLIX]	 Up	7-23	Y	23-28	29-32	33-36
				S	43	74	78
Smartrac	MiniTrack [I CODE SLIX]	 Up	7-23	Y	13-22	23-28	29-33
				S	56	91	95
Smartrac	Racetrack [ICODE SLIX]	 Up	4-18	Y	0-10	11-20	21-28
				S	103	118	127
Texas Instruments	Large Rectangle [Tag-it HF-I Plus]	 Down	4-18	Y	0-10	11-21	22-30
				S	105	120	125
Texas Instruments	Miniature Rectangle [Tag-it HF-I Plus]	 Down	4-23	Y	19-24	25-28	29-32
				S	54	82	90
Texas Instruments	24.2mm Circular [Tag-it HF-I Plus]	 Down	7-23	Y	18-22	23-26	27-30
				S	37	52	72
Texas Instruments	Square [Tag-it HF-I Plus]	 Down	4-18	Y	0-12	13-22	23-29
				S	68	108	113
Avery Dennison	AD-730x [I CODE SLIX]	 Up	7-23	Y	23-26	27-31	32-35
				S	48	78	85
Avery Dennison	AD-714x [I CODE SLIX]	 Up	4-23	Y	-	0-19	20-30
				S	-	123	130
NHK Spring Co., Ltd.	Label-type Stackable Tag [I CODE SLI]	 Up	5-8	Y	-	-	23-27
				S	-	-	87
ISO/IEC 14443 Type A							
Smartrac	BullsEye NFC [NTAG 203]	 Up	12-23	Y	10-19	20-24	25-29
				S	47	68	68
Smartrac	BullsEye NFC [NTAG 213]	 Up	4-23	Y	10-20	21-26	27-30
				S	50	58	78
Smartrac	BullsEye NFC [NTAG 216]	 Up	4-23	Y	10-17	18-24	25-30
				S	52	70	72
Smartrac	Circus NFC [NTAG 203]	 Up	7-23	Y	19-26	19-26	27-32
				S	32	43	58
Smartrac	Circus NFC [NTAG 213]	 Up	7-23	Y	23-26	27-30	31-34
				S	35	56	59
Smartrac	Midas NFC [NTAG 213]	 Up	12-23	Y	22-26	27-30	31-34
				S	24	27	36
Smartrac	Midas NFC [NTAG 203]	 Up	12-23	Y	23-26	27-30	31-33
				S	26	26	26
Smartrac	MiniTrack NFC [NTAG 203]	 Up	12-23	Y	12-20	21-27	28-32
				S	34	50	53
Smartrac	RaceTrack NFC [NTAG 203]	 Up	4-13	Y	0-15	16-24	25-30
				S	97	101	113
SAG	46x77-UL [MIFARE Ultralight]	 Up	4-8	Y	0-12	13-20	21-26
				S	59	83	95
SAG	38x27-UL [MIFARE Ultralight]	 Up	4-18	Y	19-23	24-27	28-31
				S	41	42	45
Arizon	AZ-U-UL [MIFARE Ultralight]	 Up	7-13	Y	0-10	11-15	16-27
				S	89	110	113
Arizon	AZ-G-UL [MIFARE Ultralight]	 Up	4-23	Y	-	19-26	27-31
				S	-	47	50
Arizon	AZ-T-UL [MIFARE Ultralight]	 Up	7-13	Y	13-19	20-25	26-29
				S	48	68	71

atlasRFIDstore.com
1.888.238.1155 • Inside USA
1.205.383.2244 • Outside USA
info@atlasRFIDstore.com • www.atlasRFIDstore.com