

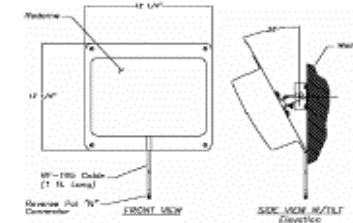
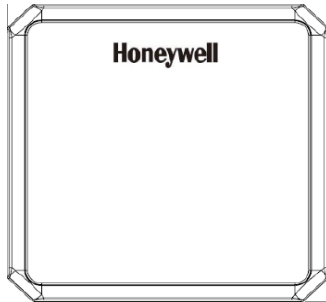
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RFID Reader
Model: IM14

Test Status	Part Number	Model, Supplier Part Number	Description	Gain (dBi)*	Cable Loss (dB)	System Gain (dBi)
	805-859-001	IA40A, Laird PAR86518H-HN1	Panel RCP	5.5	2.4	3.1
T	805-609-001	IA33A, Cushcraft SP9028PC156RSM	Patch RCP	4.0	0	4.0
	805-623-002	IA39D, Kathrein 25-278	Patch LCP	5.0	2.4	2.6
T	805-626-001	IA36B, Kathrein 25-578	Patch, Linear	6.0	2.4	3.6
	805-629-001	IA33C, Mobile Mark PN10-915RCPI	Panel RCP	7.0	2.4	4.6
	805-654-001	IA33G, Huber Suhner 84024995	Panel RCP	5.5	2.4	3.1
	805-654-002	IA34A, Huber Suhner 84024996	Panel LCP	5.5	2.4	3.1
	805-655-001	IA33H, Huber Suhner 84024999	Panel RCP	7.0	2.4	4.6
	805-655-002	IA34B, Huber Suhner 84025000	Panel LCP	7.0	2.4	4.6
	805-816-002	IA33E, Cushcraft S9026XR1RRN	Patch RCP	3.0	2.4	0.6
T	-	- , MTI MT-242044/N/K	Panel, Linear	8.0	2.4	5.6
	-	- , Huber Suhner 1309.17.0085-X	Panel, Linear	8.0	2.4	5.6
	-	- , Huber Suhner 1309.17.0089-X	Panel RCP	4.5	2.4	2.1
T	-	- , Huber Suhner 1309-56-0001-X	Panel RCP	8.0	2.4	5.6
	-	- , Huber Suhner 1309-57-0087-X	Panel RCP	7.0	2.4	4.6
	-	- , Mobile Mark PN7-915I-FL	Panel RCP	4.0	2.4	1.6
	-	- , Mobile Mark EDN 191-1550	Panel RCP	4.0	2.4	1.6
	-	- , Kathrein 520 10087	Panel RCP	7.5	2.4	5.1
	-	- , Kathrein 520 10073	Panel RCP	5.2	2.4	2.8
	-	- , Kathrein 520 10092	Patch CP	-30.0	2.4	-32.4
T	-	- , NeWave Wave-N7	7ft. Multi-Axis Dipole	5.5	2.4	3.1
	-	- , NeWave Wave-N5	5ft. Multi-Axis Dipole	4.5	2.4	2.1
	-	- , NeWave Wave-N3	3ft. Multi-Axis Dipole	3.0	2.4	0.6
	-	- , Mobile Mark BP6-915RCPI	Panel RCP	2.5	2.4	0.1
	-	- , Laird S9025P	Panel RCP	2.5	2.4	0.1
	-	- , Laird PA9-12	Panel, Linear	12.0	2.4	9.6
T	-	- , MTI MT-263006/S/E	Panel, Linear	12.5	2.4	10.1

-X = blank or A, B, C... pricing code

	* CP gain dBiC = dBi + 3
CP	circular polarized
RCP	right hand circular polarized
LCP	left hand circular polarized

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Part Number	805-859-001	805-609-001	805-623-002	805-626-001	805-629-001
Proposed Intermec M/N	IA40A	IA33A	IA39D	IA36B	IA33C
Description	IA40A: 915, 8.5dBic, RHC Pol, N	IA33A: 915, 7dBic, RHC Pol, SMA (RP)	IA39D: 915, 8 dBic, Cir Pol, N (RP)	IA36B: 915, 6dBi, Vert Pol, N (RP)	IA33C: 915, 10 dBic, CP, N (RP)
Frequency Range	865 - 956 MHz	902 - 928 MHz	865-928 MHz	865-928 MHz	902 - 928 MHz
Ant.-cable System Gain	3.1 dBi	4 dBi	2.6 dBi	3.6 dBi	4.6 dBi
Gain	5.5 dBi linear	4 dBi linear	5 dBi linear	6 dBi linear	7 dBi linear
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR	1.5:1	1.5:1	<1.3:1	<1.5:1	1.5:1
Axial Ratio	2 dB Typical	2 dB	3 dB	N/A	
Polarization	Cicular, RH	Cicular, RH	Circular, LH	Patch	Circular, RH
Front-to-Back Ratio	20 dB	18 dB	> 20 dB	>20 dB	20 dB
Maximum Input Power	3W	1 Watt	100 Watts (at 50°C)	100 Watts (at 50°C)	20 Watts
H-Plane Beamwidth	65 degrees at 3 dB	65 degrees at 3 dB	60 degrees (half power)	90 degrees (half power)	56 degrees
E-Plane Beamwidth	65 degrees at 3 dB	65 degrees at 3 dB	55 degrees (half power)	70 degrees (half power)	56 degrees
Connector	N-Female	SMA Reverse Polarity	N Reverse Polarity	N Reverse Polarity	N Reverse Polarity
Cable Length	N/A	156 Inches	N/A	N/A	1 Foot
Weight	0.86 kg (1.89 lbs)	0.57 kg (1.25 lbs)	1.7 kg (3.8 lbs)	1.5 kg (3.3 lbs)	1.36 kg (3.0 lbs)
Dimensions	259 mm x 259 mm x 34 mm (10.2" x 10.2" x 1.3")	259 mm x 259 mm x 38 mm (10.2" x 10.2" x 1.5")	310 mm x 262 mm x 59 mm (12.2" x 10.3" x 2.4")	262 mm x 155 mm x 49 mm (10.3" x 6.1" x 1.9")	318 mm x 318 mm x 89 mm (12.5" x 12.5" x 3.5")
Shock					
RoHS, WEEE Status	Compliant				
Mounting Hardware		N/A	203-734-001 kit included 203-733-001 kit order seperately 203-735-001 order seperately 203-737-001 order seperately	203-734-001 kit included 203-733-001 kit order seperately 203-735-001 order seperately 203-737-001 order seperately	Tilt bracket hardware included
Manufacturer	Laird	Cushcraft-Laird	Kathrein	Kathrein	Mobile Mark
Manufacturer M/N			25-278	25-578	
Manufacturer P/N	PAR86518H-HN1	SP9028PC156RSM			PN10-915RCPI
Product ID					

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Part Number	805-654-001	805-654-002	805-655-001	805-655-002	805-816-002
Proposed Intermec M/N	IA33G	IA34A	IA33H	IA34B	IA33E
Description	IA33G, 915, 8.5 dBic, RHCP, N (RP)	IA34A, 915, 8.5 dBic, LHCP, N (RP)	IA33H, 915, 10dBic, RHCP, N (RP)	IA34B, 915, 10dBic, LHCP, N (RP)	IA33E: 915, 6.0 dBic, Cir Pol, N (RP)
Frequency Range	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz
Ant.-cable System Gain	3.1 dBi	3.1 dBi	4.6 dBi	4.6 dBi	0.6 dBi
Gain	5.5 dBi linear	5.5 dBi linear	7 dBi linear	7 dBi linear	3 dBi linear
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR	max. 1.5	max. 1.5	max. 1.5	max. 1.5	<1.5:1
Axial Ratio	4 dB	4 dB	2.5 dB	2.5 dB	N/A
Polarization	Circular, RH	Circular, LH	Circular, RH	Circular, LH	Circular, RH
Front-to-Back Ratio	> 20 dB	> 20 dB	Max -20 dB	Max -20 dB	10 dB
Maximum Input Power	100 Watts (at 50°C)	100 Watts (at 50°C)	6 Watts	6 Watts	10 Watts
H-Plane Beamwidth	63 degrees (At 3dB)	63 degrees (At 3dB)	60 degrees (At 3dB)	60 degrees (At 3dB)	82 degrees (half power)
E-Plane Beamwidth	63 degrees (At 3dB)	63 degrees (At 3dB)	45 degrees (At 3dB)	45 degrees (At 3dB)	82 degrees (half power)
Connector	N Reverse Polarity	N Reverse Polarity	N Reverse Polarity	N Reverse Polarity	N Reverse Polarity
Cable Length	N/A	N/A	N/A	N/A	N/A
Weight	1.2 kg (2.65 lbs)	1.2 kg (2.65 lbs)	2.0 kg (4.41 lbs)	2.0 kg (4.41 lbs)	3.0 lbs (1.4 kg)
Dimensions	305 mm x 305 mm x 25 mm (12.01" x 12.01" x 0.98")	305 mm x 305 mm x 25 mm (12.01" x 12.01" x 0.98")	371 mm x 371 mm x 40 mm (14.61" x 14.61" x 1.57")	371 mm x 371 mm x 40 mm (14.61" x 14.61" x 1.57")	196 mm x 196 mm x 25 mm (7.7" x 7.7" x 1.0")
Shock					50 g, 8ms ½ sine, 5000 impulses
RoHS, WEEE Status	Complies	Complies	Complies	Complies	Complies
Mounting Hardware	805-653-001 Mnting Bracket (separate)	805-653-001 Mnting Bracket (separate)	805-653-001 Mnting Bracket (separate)	805-653-001 Mnting Bracket (separate)	Adaptable Load Backrest Mounting Included
Manufacturer	Huber Suhner	Huber Suhner	Huber Suhner	Huber Suhner	Cushcraft-Laird
Manufacturer M/N	1309.17.0077		1309.17.0078		S9026X
Manufacturer P/N	Item No. 84024995	Article No. 84024996	Item No. 84024999	Article No. 84025000	S9026XR1RRN
Product ID					

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Part Number		former Product Links	former Product Links	former Product Links	former Product Links
Proposed Intermec M/N	N/A	N/A	N/A	N/A	N/A
Description	915, 8 dBi, linear, N	915, 8 dBi, linear, N	915, 7.5 dBic, RHCP, N	915, 11 dBic, RHCP, N (RP)	915, 10 dBic, RHCP, N (RP)
Frequency Range	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz
Ant.-cable System Gain	5.6 dBi	5.6 dBi	2.1 dBi	5.6 dBi	4.6 dBi
Gain	8 dBi linear	8 dBi linear	4.5 dBi linear	8 dBi linear	7 dBi linear
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR	max. 1.35 :1	max. 1.7:1	max. 1.3:1	max. 1.5	max. 1.5
Axial Ratio			1.3 dB	3 dB	2.5 dB
Polarization	Linear	Linear	Circular	Circular, RH	Circular, RH
Front-to-Back Ratio	Max -16 dB	Max -11dB	Max -11 dB	Max -20 dB	Max -20 dB
Maximum Input Power	6 Watts	6 Watts	6 Watts	6 Watts	6 Watts
H-Plane Beamwidth	72 degrees (At 3dB)			63 degrees (At 3dB)	60 degrees (At 3dB)
E-Plane Beamwidth	73 degrees (At 3dB)	70 degrees (At 3dB)	70 H, 71 V degrees (At 3dB)	30 degrees (At 3dB)	45 degrees (At 3dB)
Connector	N Reverse Polarity	N Reverse Polarity	N Reverse Polarity	TNC Reverse Polarity	N Reverse Polarity
Cable Length	N/A	N/A	N/A	N/A	N/A
Weight	0.7 kg (1.54lbs)	0.7 kg (1.54lbs)	1 kg (2.2 lbs)	2.8 kg (6.17 lbs)	2.0 kg (4.41 lbs)
Dimensions	190 mm x 190mm x 30 mm (7.5" x 7.5" x 1.2")	190 mm x 190mm x 30 mm (7.5" x 7.5" x 1.2")	190 mm x 190 mm x 30 mm (7.5" x 7.5" x 1.2")	630 mm x 320 mm x 40 mm (24.8" x 12.98" x 1.57")	371 mm x 371 mm x 40 mm (14.61" x 14.61" x 1.57")
Shock	10g, 11ms, ½ sine pulse				
RoHS, WEEE Status	Complies	Complies	Complies	Complies	Complies
Mounting Hardware	RD41191800C MT-120018/A (separate)			84007206 Mnting Bracket (separate)	84007205 Mnting Bracket (separate)
Manufacturer	MTI Wireless Edge	Huber Suhner	Huber Suhner	Huber Suhner	Huber Suhner
Manufacturer M/N	MT-242044	1309.17.0085	1309.17.0089	1309-56-0001-x	1309-57-0087-x
Manufacturer P/N	MT-242044/N/K	Item No. 84029200	Item No. 84039145	Item No. 84039146	Item No. 84068841
Product ID		SPA-915/70/8/0/V	SPA-915/10/8/0/RCP	SPA-915/63/11/0/RCP	SPA 915/60/10/0/RCP_C1

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Part Number	former Product Links	former Product Links	former Product Links	former Product Links	former Product Links
Proposed Intermec M/N	N/A	N/A	N/A	N/A	N/A
Description	915, 7 dBic, RHCP, N (RP)	915, 7 dBic, RHCP, N	915, 10.5 dBic, LHCP, N	915, 8.2 dBic, LHCP, N	915, -30 dBic, CP, TNC
Frequency Range	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz	865 - 928 MHz
Ant.-cable System Gain	1.6 dBi	1.6 dBi	5.1 dBi	2.8 dBi	-32.4 dBi
Gain	4 dBi linear	4 dBi linear	7.5 dBi linear	5.2 dBi linear	-30 dBi linear
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR	1.5:1	1.5:1	<1.3:1	<1.2:1	<1.2:1
Axial Ratio					
Polarization	Circular, RH	Circular, RH	Circular, LH	Circular, LH	
Front-to-Back Ratio	15 dB	15 dB	> 20 dB	> 22 dB	
Maximum Input Power	20 Watts	20 Watts	1 Watt	1 Watt	
H-Plane Beamwidth	75 degrees	75 degrees			
E-Plane Beamwidth	75 degrees	75 degrees	30 V, 70 H degrees (half power)	68 V, 70 H degrees (half power)	
Connector	N Reverse Polarity Female	N Reverse Polarity Female	N Reverse Polarity	N Reverse Polarity	
Cable Length	N/A	N/A	N/A	N/A	N/A
Weight	0.50 kg (1.1 lbs)	0.68 kg (1.5 lbs)	3.7 kg (8.16 lbs)	1.1 kg (2.43 lbs)	110 g (0.25 lbs)
Dimensions	172 mm x 172 mm x 50mm (6.75" x 6.75" x 2.0")	210 mm x 210 mm x 19mm (8.25" x8.25" x 0.75")	557 mm x 262 mm x 59 mm (22"x 10.3"x 2.3")	243 mm x 290 mm x 60 mm (9.6"x 11.4"x 2.4")	90 mm x 63 mm x 31 mm (3.5" x 2.5" x 1.2")
Shock					
RoHS, WEEE Status			Complies	Complies	Complies
Mounting Hardware	included				
Manufacturer	Mobile Mark	Mobile Mark	Kathrein	Kathrein	Kathrein
Manufacturer M/N	PN7-915I-FL	EDN 191-1550	520 10087	520 10073	520 10092
Manufacturer P/N	PN7-915I	PN7-915I	521 10087	521 10073	521 10092
Product ID					

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Part Number	former Product Links	former Product Links	former Product Links	former Product Links	former Product Links
Proposed Intermec M/N	N/A	N/A	N/A	N/A	N/A
Description	915, 5.5 dBi, multi-linear, TNC	915, 4.5 dBi, multi-linear, TNC	915, 3 dBi, multi-linear, TNC	915, 5.5 dBic, RHCP, N	915, 5.5 dBic, RHCP, N
Frequency Range	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz	902 - 928 MHz
Ant.-cable System Gain	3.1 dBi	2.1 dBi	0.6 dBi	0.1 dBi	0.1 dBi
Gain	5.5 dBi linear	4.5 dBi linear	3 dBi linear	2.5 dBi linear	2.5 dBi linear
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR	max. 1.7:1	max. 1.7:1	max. 1.7:1	< 2.0:1	< 1.5:1
Axial Ratio					2.0 dB
Polarization	Multi-axis	Multi-axis	Multi-axis	Circular, RH	Circular, RH
Front-to-Back Ratio	N/A	N/A	N/A	10 dB	8 dB
Maximum Input Power	1 Watt	1 Watt	1 Watt	20 Watts	10 Watts
H-Plane Beamwidth					
E-Plane Beamwidth	360 degrees	360 degrees	360 degrees	80 V, 80 H degrees	100 degrees
Connector	TNC Reverse Polarity	TNC Reverse Polarity	TNC Reverse Polarity	N Reverse Polarity Female	N Reverse Polarity Female
Cable Length	N/A	N/A	N/A	6 inch	N/A
Weight	1.8 kg (4 lbs)	1.4 kg (3 lbs)	0.8 kg (1.7 lbs)	0.5 kg (1.1 lbs)	0.37 kg (0.8 lbs)
Dimensions	2.2 m x 229 mm x 38 mm (87" x 9" x 1.5")	1.55 m x 229 mm x 38 mm (61" x 9" x 1.5")	915 mm x 229 mm x 38 mm (36" x 9" x 1.5")	146 mm x 146 mm x 18 mm (5.75" x 5.75" x 0.7")	132 mm x 132 mm x 18 mm (5.2" x 5.2" x 0.7")
Shock					IEC 68-2-27
RoHS, WEEE Status					
Mounting Hardware					
Manufacturer	NeWave Sensor Solutions	NeWave Sensor Solutions	NeWave Sensor Solutions	Mobile Mark	Laird
Manufacturer M/N	NSS Wave-N7	NSS Wave-N5	NSS Wave-N3	BP6-915	S9025P
Manufacturer P/N				BP6-915RCP	S9025PR
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Part Number		
Proposed Intermec M/N	N/A	N/A
Description	915, 12 dBi, linear, N	915, 12.5 dBi, linear, SMA (RP)
Frequency Range	902 - 928 MHz	902 - 928 MHz
Ant.-cable System Gain	9.6 dBi	10.1 dBi
Gain	12 dBi linear	12.5 dBi linear
Impedance	50 Ohms	50 Ohms
VSWR	1.5:1	max. 1.7:1
Axial Ratio		
Polarization	Linear	Linear
Front-to-Back Ratio		-24 dB
Maximum Input Power	10 Watts	6 Watts
H-Plane Beamwidth	40 degrees (At 3dB)	42 degrees (At 3dB)
E-Plane Beamwidth	55 degrees (At 3dB)	42 degrees (At 3dB)
Connector	N Reverse Polarity	SMA Reverse Polarity
Cable Length	N/A	N/A
Weight	3.0 lbs (1.4 kg)	3.0 kg (6.61 lbs)
Dimensions	411 mm x 373 mm x 36 mm (16.2" x 14.7" x 1.4")	450 mm x 450 mm x 36 mm
Shock		IEC 60721-3-4
RoHS, WEEE Status	Complies	Complies
Mounting Hardware	Included	MT-120018 (separate)
Manufacturer	Laird	MTI Wireless Edge
Manufacturer M/N	PA9-12	MT-263006
Manufacturer P/N	PA9-12	MT-263006/S/E
Product ID		