



MTI Wireless Edge Ltd.

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SPECIFICATION FOR MT – 263009/NRH DUAL RHCP READER ANTENNA 902-928 MHz, 10.5 dBic

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MTI WIRELESS EDGE LTD.	MT –263009 /NRH	REV-D
SCALE: NONE	DOC NO. RD41668700C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
A	CX05	RELEASED	Yael H.	13.7.05
B	001026	UPDATE SPEC	Yael H.	5.9.05
C	1129	UPDATE SPEC	Yael H.	19.12.05
D	3272	UPDATE FROM IP54 TO IP64	Yael H.	25.9.08

SHEET	43	44	45	46	47	48	49	50	51	52	53	54	55	56
REV														
SHEET	29	30	31	32	33	34	35	36	37	38	39	40	41	42
REV														
SHEET	15	16	17	18	19	20	21	22	23	24	25	26	27	28
REV														
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14
REV	D	D	D	D										

PRODUCT STATUS:			
<input type="checkbox"/> PROPOSAL	<input type="checkbox"/> IN DEVELOPMENT	<input checked="" type="checkbox"/> PREPRODUCTION	<input type="checkbox"/> PRODUCTION

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael HRASH	Y.H	30.6.05
CHKD	DOV FEINER	D.F	12.7.05
CHKD			
CHKD			
DSGN	ASAF HAVIV	A.H	30.6.05
PROJ	ALEX DRAGILEV	A.D	30.6.05
MFG			
QA	MOTI MOTOVICH	MOTI	3.7.05
MARK.	DAVID SHANI	D.S	13.7.05

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SPECIFICATION

FLAT PANEL READER ANTENNA

MTI PART NUMBER	MT – 263009/NRH
<u>1. ELECTRICAL</u>	
FREQUENCY RANGE	902 - 928 MHz
GAIN	10.5 dBic (min)
VSWR	1.5:1 (max) 1.3:1 (typ)
AZIMUTH 3 dB BEAMWIDTH	65° (typ)
ELEVATION 3 dB BEAMWIDTH	40° (typ)
POLARIZATION	TWO RHCP
AZIMUTH BORESIGHT MISALIGNMENT BETWEEN PORTS	6° (max)
ELEVATION BORESIGHT MISALIGNMENT BETWEEN PORTS	4° (max)
AZIMUTH TILT	4° (max)
ELEVATION TILT	2° (max)
SIDELOBES LEVEL @ ±90°	-14 dB (max)
AXIAL RATIO AT BORESIGHT	1.5 dB (typ) 2 dB (max)
PORT TO PORT ISOLATION	-40 dB (min)
F/B RATIO	-25 dB (max)
INPUT IMPEDANCE	50 (Ohm)
INPUT POWER	6 W (max)
LIGHTNING PROTECTION	DC Grounded
<u>2. MECHANICAL</u>	
DIMENSIONS (LxWxD)	920x325x34mm
ORIENTATION	Rectangular
WEIGHT	4 kg (max)
CONNECTOR	2 X N - type
RADOME	Plastic UV Resistant per ETSI 300
BASE PLATE	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD41668800C
<u>3. MOUNTING KIT</u>	
	SEE RD41191800C

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4. ENVIRONMENTAL				
TEST	STANDARD	DURATION	TEMPERTURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 h	-55°C	-
HIGH TEMPERATURE	IEC 68-2-2	72 h	+71°C	-
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycle s
THERMAL SHOCK NONO-OPERATING			-30°C to +70°C	Ramp 30°C/min
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
WATER TIGHTNESS	IEC 529	-	-	IP64
DUST RESISTANCE				IP64
SOLAR RADIATION	ASTM G53	1000 h	-	-
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94	-	-	Class HB
QUASI RANDOM VIBRATION				20g rms for 4 hours
VEHICLE VIBRATION OPERATING	1g rms, 10- 500 Hz, in 3 axis			6 hours total, 2 hr in each axis. Accelerated wear – an additional 50hrs in worst case axis.
MECHANICAL SHOCK OPERATING	10g, 11 msec, half sine pulse			

Authorized Reseller:
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 sales@rfid4ustore.com

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