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# **SPECIFICATION FOR MT – 263020/TRH/A RHCP READER ANTENNA 902-928 MHz, 11 dBic**

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<b>MTI WIRELESS EDGE LTD.</b>	<b>MT – 263020/TRH/A</b>	<b>REV-C</b>
<b>SCALE: NONE</b>	<b>DOC NO. RD41895500C</b>	<b>SHEET 1 OF 4</b>

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
A	CV92	RELAESD	Yael H.	25.6.06
B	2083	UPDATE 3 dB BEAMWIDTH	Yael H.	12.4.07
C	5579	UPDATE ANTENNA DIM	Yael H.	18.4.12

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	C	C	C	C										

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

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael HARASH	Yael	1.6.06
CHKD	DOV FEINER	D.F	22.6.06
CHKD			
CHKD			
DSGN	ASAF HAVIV	H.A	4.6.06
PROJ	ALEX DRAGILEV	A.D	4.606
MFG			
QA	MOTI MOTOVICH	MOTI	5.6.06
MARK.	DAVID SHANI	D.S	11.6.06

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 263020/TRH/A SUBSCRIBER ANTENNA		
DOC NO. RD41895500C	902-928 MHz, 11 dBic		
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## SPECIFICATION

### FLAT PANEL READER ANTENNA

<b>MTI PART NUMBER</b>	<b>MT – 263020/TRH/A</b>
REGULATORY COMPLIANCE	RoHS , CE 0682
<b><u>1. ELECTRICAL</u></b>	
FREQUENCY RANGE	902 - 928 MHz
GAIN	11 dBic (min)
VSWR	1.5:1 (max)      1.3:1 (typ)
AZIMUTH 3 dB BEAMWIDTH	30° (typ)
ELEVATION 3 dB BEAMWIDTH	63° (typ)
POLARIZATION	RHCP
SIDELOBES LEVEL	-12 dB (max)      -15 dB (typ)
AXIAL RATIO AT 3 dB BEAMWIDTH	3 dB (max)
F/B RATIO	-20 dB (max)
INPUT IMPEDANCE	50 (ohm)
INPUT POWER	6 W (max)
LIGHTNING PROTECTION	DC Grounded
<b><u>2. MECHANICAL</u></b>	
DIMENSIONS (LxWxD)	650x320x32 mm (max)
ORIENTATION	Rectangular
WEIGHT	2.8 Kg (max)
CONNECTOR	TNC Reverse polarity
RADOME	Plastic UV Resistant per ETSI 300
OUT LINE DRAWING	RD41895600C
<b>3. MOUNTING KIT</b>	SEE RD41191800C, MT-120019

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<b>4. ENVIRONMENTAL</b>				
<b>TEST</b>	<b>STANDARD</b>	<b>DURATION</b>	<b>TEMPERTURE</b>	<b>NOTES</b>
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	-	-	IP54
DUST RESISTANCE				IP54
SOLAR RADIATION	ASTM G53	1000 h	-	-
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94	-	-	Class HB
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
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			

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