



**MTI Wireless Edge Ltd.**

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# **SPECIFICATION FOR MT – 482016/N/A OMNIDIRECTIONAL ANTENNA 5.47-5.875 GHz, 8.5 dBi**

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<b>MTI WIRELESS EDGE LTD.</b>	<b>MT – 482016/N/A</b>	<b>REV-C</b>
<b>SCALE: NONE</b>	<b>DOC NO. RD41856900C</b>	<b>SHEET 1 OF 4</b>

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
01		UPDATE SPEC	Yael H.	14.5.06
A	CU88	RELAISED	Yael H.	23.7.06
B	1598	UPDATE SPEC	Yael H.	13.12.06
C	2021	UPDATE SPEC	Yael H.	17.1.07
D	2100	CHANGE IP FROM 64 TO 67	Yael H.	13.5.07

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										

<b>PRODUCT STATUS:</b>			
<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	23.4.06
CHKD	DOV FINER	D.F	20.7.06
CHKD			
CHKD			
DSGN	MICHAEL HAIKIN	M.H	3.7.06
PROJ	MOTI ROSTMY	M.R	3.7.06
MFG			
QA	MOTI MOTOVICH	H.G	4.7.06
MARK.	DAVID SHANI	D.S	17.7.06

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 482016/N/A OMNIDIRECTIONAL ANTENNA		
DOC NO. RD41859600C	5.47-5.875 GHz, 8.5 dBi		
SCALE: NONE	CLASSIFICATION: NONE	REV-D	SHEET 2 OF 4

## SPECIFICATION

### OMNIDIRECTIONAL ANTENNA

<b>MTI PART NUMBER</b>	<b>MT – 482016/N/A</b>
REGULATORY COMPLIANCE	RoHS , CE 0682
<b><u>1. ELECTRICAL</u></b>	
FREQUENCY RANGE	5.47 – 5.875GHz
PEAK GAIN + AZIMUTH RIPPLE	7.8 ± 0.6dBi @ 5.47 GHz 9.0 ± 0.6dBi @ 5.725 GHz 8.5 ± 0.6dBi @ 5.875 GHz
GAIN + AZIMUTH RIPPLE @ HORIZON	6.0 ± 0.8dBi @ 5.47 GHz 9.0 ± 0.6dBi @ 5.725 GHz 7.5 ± 0.8dBi @ 5.875 GHz
VSWR	1.7:1 (max)
AZIMUTH BEAMWIDTH	Omni
ELEVATION BEAMWIDTH	10°(typ)
ELECTRICAL TILTE	- 3°(typ) @ 5.47 GHz 0°(typ) @ 5.725GHz +2°(typ) @ 5.875GHz
POLARIZATION	Linear Vertical
E – PLANE SIDELOBES LEVEL	-10 dB (typ)
INPUT IMPEDANCE	50 (ohm)
INPUT POWER	4W (max)
LIGHTNING PROTECTION	DC Grounded
<b><u>2. MECHANICAL</u></b>	
DIMENSIONS : DIAMETER HEIGHT	16mm (max) 337 mm (max)
WEIGHT	0.5 (kg) (max)
CONNECTOR	N – Type male
RADOME	Plastic , UV Resistant
OUTLINE DRAWING	RD41857000C
<b><u>3. MOUNTING KIT</u></b>	
CONFIGURATION	Mounted to radio's N-female output

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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
VIBRATION	IEC 60721-3-4	30 min/axis	-	Random 4M5
SHOCK MECHANICAL	IEC 60721-3-4	-	-	4M5
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
WATER TIGHTNESS	IEC 529	-	-	IP67
SOLAR RADIATION	ASTM G53	1000 h	-	-
FLAMMABILITY	UL 94	-	-	Class HB
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
ICE AND SNOW	-	-	-	25mm Radial
WIND SPEED SURVIVAL OPERATION	-	-	-	220 Km/h 160 Km/h
WIND LOAD (SURVIVAL): FRONT THRUST SIDE THRUST	-	-	-	1.6 kg 1.6 kg

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