

SPECIFICATION FOR MT – 462007/N/A OMNIDIRECTIONAL ANTENNA 4.9 – 5.875 GHz, 8.5 dBi

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MTI WIRELESS EDGE LTD.	MT – 462007/N/A	REV-A
SCALE: NONE	DOC NO. RD42120800C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
01		UPDATE SPEC	Yael H.	18.11.07
A	CY69	RELAESD	Yael H.	2.12.07

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	A	A	A	A										

PRODUCT STATUS:			
☐ PROPOSAL	☒ IN DEVELOPMENT	☐ PREPRODUCTION	☐ PRODUCTION

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael Harash	Yael	18.11.07
CHKD	Daniel Zerah	D.Z	29.11.07
CHKD			
CHKD			
DSGN	Michael Haikin	M.H	19.11.07
PROJ	Moti Rostmi	M.R	19.11.07
MFG			
QA	Moti Motovich	Moti	22.11.07
MARK.	David Shani	D.S	28.11.07

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SPECIFICATION

OMNIDIRECTIONAL ANTENNA

MTI PART NUMBER	MT – 462007/N/A
REGULATORY COMPLIANCE	RoHS , CE 0682
<u>1. ELECTRICAL</u>	
Frequency Range	4.9 – 5.875 GHz
Peak Gain	8.5 dBi $\pm$ 1 dB
Azimuth ripple	$\pm$ 1.5 dB (max)
Gain + Gain Ripple	7.2 dBi $\pm$ 0.8 dB @ 4.9 – 5.15 GHz 8.2 dBi $\pm$ 1.3 dB @ 5.15 – 5.47 GHz 7.5 dBi $\pm$ 1.9 dB @ 5.47 – 5.875 GHz
VSWR	2.0 :1 (max)
Azimuth beamwidth	360°
Polarization	Linear Vertical
E - plane beamwidth	9.5° $\pm$ 1°
E - plane sidelobes	-10 dB (max)
Input impedance	50 (ohms)
Power	6 W (max)
Lightning protection	DC Grounded
<u>2. MECHANICAL</u>	
Dimensions : Diameter Height	28 mm (max) 345 mm (max)
Weight	0.5 kg (max)
Connector	N – Type male
Radome	Plastic, UV Resistant
Outline drawing	RD42353100C
<u>3. MOUNTING KIT</u>	
Configuration	Mounted to radio's N-female output

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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 Cycles
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	-	-
Salt Spray	IEC 68-2-11 Ka	500 h	-	-
Ice And Snow	-	-	-	25mm Radial
Wind Speed Survival Operation	- -	- -	- -	220 Km/h 160 Km/h

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