

**SPECIFICATION FOR
MT -404067/ND
DUAL SLANT POL B.S. ANTENNA
3.3 – 3.8 GHz, 65°, 17 dBi**

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MTI WIRELESS EDGE LTD.		MT – 404067/ND	REV-D
SCALE: NONE	DOC NO. RD42063000C	SHEET 1 OF 4	

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REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
01		UPDATE SPEC	Yael H.	5.3.07
02		UPDATE SPEC	Yael H.	11.3.07
A	CW99	RELAESD	Yael H.	2.4.07
B	3037	UPDATE SPEC	Yael H.	5.2.08
C	3124	UPDATE SPEC	Yael H.	12..5.08
D	4197	UPDATE from ip54 to ip64	Yael H.	2.9.09

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:			
☐ PROPOSAL	☐ IN DEVELOPMENT	☐ PREPRODUCTION	☒ PRODUCTION

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael Harash	Yael	18.3.07
CHKD	DOV FEINER	D.F	2.4.07
CHKD			
CHKD			
DSGN	ARKADY KOUSLIK	A.K	1.4.07
PROJ	ALEX DRAGILEV	A.D	29.3.07
MFG			
QA	MOTI MOTOVICH	MOTI	1.4.07
MARK.	DAVID SHANI	D.S	1.4.07

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SPECIFICATION

FLAT PANEL BASE STATION ANTENNA DUAL-SLANT POLARIZATION

MTI PART NUMBER	MT – 404067/ND
Regulatory Compliance	ETSI EN 302 326 V.1.1.2 (2006-03) RoHS , CE 0682
1. ELECTRICAL	
Frequency Range	3.3 – 3.8 GHz
Gain	16 dBi (min) @ 3.3-3.4GHz 17±0.5 dBi (min) @ 3.4-3.8GHz
VSWR	1.5 :1 (typ) , 1.8 : 1 (max)
Azimuth Beamwidth @ 13.5dBi	65° (typ)
Elevation Beamwidth @ -3dB	7.5° (typ)
Polarization	Dual Linear, ±45°
Cross Polarization	ETSI EN 302 326 V.1.1.2 (2006-03)
Side Lobes Level Azimuth & Elevation	Meets ETSI EN 302 326 V.1.1.2 (2006-03)
Side Lobes Level for Azimuth in the range (±100 to ±180 from Boresight)	-25dB (max) @ 3.3-3.5GHz -30dB (max) @ 3.5-3.8GHz
Front to Back Ratio	ETSI EN 302 326 V.1.1.2 (2006-03) -30dB (max)
Port To Port Isolation	25 dB (min) @ 3.3-3.7GHz 20 dB (min) @ 3.7-3.8GHz
Input Impedance	50 Ω
Input Power	20W (CW) , 250W (peak)
Lightning Protection	DC Grounded
2. MECHANICAL	
Dimensions (L x W x D)	600 x 130 x 63 mm (max)
Weight	2.5 kg (max)
Connectors	2 x N – Type female
Radome	Plastic UV Resistant
Base Plate	Aluminum with chemical conversion coating
Outline Drawing	RD42130300C
Mechanical Down Tilt	0° to (-10°)
3. MOUNTING KIT	SEE RD41191800C , MT-120025/A

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4. ENVIRONMENTAL				
TEST	STANDARD	DURATION	TEMPERATURE	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	-	-	IP64
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/
Wind Load (Survival): Front Thrust Side Thrust	- -	- -	- -	22.3 kg 10.8 kg

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