

**Specification for
MT – 465019/NVD
Triple Polarization
Subscriber Antenna
4.9 - 6.1 GHz
19.0 dBi Vertical Polarization
17.0 dBi Dual Slant polarization**

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MTI WIRELESS EDGE LTD.	MT – 465019/NVD	REV-A
SCALE: NONE	DOC NO. RD43186100C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
01		Update spec	Yael h.	30.7.11
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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:			
<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 HARASH	Yael	18.1.11
CHKD	DANIER ZERHAH	D.Z	9.8.11
CHKD			
CHKD			
DSGN	SERGEY ZEMLIAKOV	S.Z	7.8.11
PROJ	LARISA MEDVEDOVSKY	L.M	7.8.11
MFG			
QA	MOTI MOTOVICH	MOTI	9.8.11
MARK.	DAVID SAHNI	D.S	9.8.11

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SPECIFICATION
Flat Panel Subscriber Antenna Triple Polarization

MTI PART NUMBER	MT – 465019/NVD	
Regulatory Compliance	RoHS , CE 0682	
<u>1. ELECTRICAL</u>		
Frequency Range	4.9 - 6.1 GHz	
Polarization	Vertical	Dual slant $\pm 45^\circ$
Gain	4.9-5.15 GHz @ 18.0 \pm 1.0 dBi 5.15-6.0 GHz @ 20.0 \pm 1.0 dBi 6.0-6.1 GHz @ 17.0 \pm 1.0 dBi	4.9-5.15 GHz @ 16.5 \pm 1.0 dBi 5.15-6.0 GHz @ 18.0 \pm 1.0 dBi 6.0-6.1 GHz @ 16.0 \pm 1.0 dBi
VSWR	1.5:1 (typ) , 1.8:1 (max)	1.5:1 (typ) , 1.8:1 (max)
-3 dB Beam Width Azimuth	20° (typ) @ 4.9-5.875 GHz 15° (typ) @ 5.875-6.1 GHz	20° (typ)
-3 dB Beam Width Elevation	12° (typ)	20° (typ)
Side Lobes level Azimuth	-15 dB(typ) @ 4.9-5.875 GHz - 9 dB(typ) @ 5.875-6.1 GHz	-15 dB(typ) @ 4.9-6.0 GHz -13 dB(typ) @ 6.0-6.1 GHz
Side Lobes level Elevation	-15 dB(typ) @ 4.9-5.875 GHz -10 dB(typ) @ 5.875-6.1 GHz	-15 dB(typ) @ 4.9-5.875 GHz -11 dB(typ) @ 5.875-6.1 GHz
Cross Polarization Azimuth	-20 dB (typ) @ 4.9-5.875 GHz -12 dB (typ) @ 5.875-6.1 GHz	-20 dB (typ) @ 4.9-6.0 GHz -15 dB (typ) @ 6.0-6.1 GHz
Cross Polarization Elevation	-25 dB (typ)	-20 dB (typ) @ 4.9-5.875 GHz -13 dB (typ) @ 5.875-6.1 GHz
Port To Port Isolation	-40 dB (max) @ 4.9-6.0 GHz -35 dB (max) @ 6.0-6.1 GHz	-35 dB (max) @ 4.9-5.875 GHz -30 dB (max) @ 5.875-6.1 GHz
F/B Ratio	-30 dB (max) , -35 dB (typ)	
Input Impedance	50 (ohm)	
Input Power	6 W (max)	
Lightning Protection	DC Grounded	
<u>2. MECHANICAL</u>		
Dimensions (LxWxD)	305 x 305 x 15mm (max)	
Weight	1.5 (kg) (max)	
Connector	3 x N type Female	
Radome	Plastic	
Base Plate	Aluminum with chemical conversion coating	
Outline Drawing	RD43186200C	
<u>3. MOUNTING KIT</u>		
	MT-120018/A	

NOTE : Port V has an elevation squint of 5°(typ) in the range 6.05-6.1

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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 4M3
Shock Mechanical	IEC 60721-3-4	-	-	4M3
Humidity	ETSI EN300-2-4 T4.1E	144 h	-	95%
Water Tightness	IEC 529	-	-	IP67
Solar Radiation	ASTM G53	2000 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
Wind Load (Survival): Front Thrust Side Thrust	- - -	- - -	- - -	26.8 kg 1.3 kg

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