

Specification for MT – 464018/ND Dual Slant Pol B.S. Antenna 4.9 – 5.95 GHz, 16dBi, 90°

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MTI WIRELESS EDGE LTD.		MT – 464018/MD	REV-E
SCALE: NONE	DOC NO. RD42761300CRD420XXX00CRD420 XXX00C		SHEET 1 OF 5

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
01		Update Gain And Elevation Beamwidth	Yael h.	30.4.09
02		UPDATE SPEC	Yael H.	7.5.09
03		UPDATE DIM.	Yael H.	26.7.09
A	DB40	RELAISED	Yael H.	4.8.09
B	4190	Delete Passive Inter Modulation (Pim)	Yael H.	28.8.09
C	4287	UPDATE SPEC	Yael H.	14.12.09
D	4298	UPDATE F/B	Yael H.	23.12.09
E	4575	UPDATE WEIGHT	Yael H.	14.4.10

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	E	E	E	E										

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

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael HARASH	Yael	22.4.09
CHKD	DANIEL ZERHA	D.Z	3.8.09
CHKD			
CHKD			
DSGN	ASAF HAVIV	A.H	26.7.09
PROJ	LARISA MEDVEDOVSKY	L.M	26.7.09
MFG			

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QA	MOTI MOTOVICH	MOTI	2.8.09
MARK.	DROR REISS	D.R	2.8.09

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SPECIFICATION

Flat Panel Base Station Antenna Dual-Slant Polarization

MTI PART NUMBER	MT – 464018/ND
Regulatory Compliance	RoHS , CE 0682
1. <u>ELECTRICAL</u>	
Frequency Range	4.9 – 5.95 GHz
Gain	16.0dBi (min) , 16.5dBi (typ)
VSWR	2 :1 (max) 1.7 : 1 (typ)
4dB Azimuth Beamwidth	90° (typ)
3dB Elevation Beamwidth	6° (typ)
Polarization	Dual Linear, ±45°
Cross Polarization	-15 dB (max)
F/B Ratio	25dB (min)
EI Upper Sidelobes Level	-11dB (typ)
EI 1st Null Fill	-10dB(typ)
Port To Port Isolation	22dB (min) , 25 dB (typ)
Input Impedance	50 Ω
Input Power	20W (max)
Lightning Protection	DC Grounded
2. <u>MECHANICAL</u>	
Dimensions (L x W x D)	550 x 250 x 17 mm (max)
Weight	2.5kg (max)
Connectors	2 x N-type female
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating
Outline Drawing	RD42830900C
3. <u>MOUNTING KIT</u>	SEE RD41191800C, MT-120025

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4. ENVIRONMENTAL				
TEST	STANDARD	DURATION	TEMPERTURE	NOTES
Low Temperature	IEC 68-2-1	72 h	-45°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 G 154	1000 h	-	-
Flammability	UL 94	-	-	Class HB
Salt Spray	IEC 68-2-11 Ka	500 h	-	-
Ice And Snow	-	-	-	25mm Radial
Wind Speed				
Survival	-	-	-	220 Km/h
Operation	-	-	-	160 Km/h

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