

Specification for MT – 485053/SVH/A Dual Polarization Subscriber Antenna 5.15-5.875 GHz, 19.5dBi

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MTI WIRELESS EDGE LTD.	MT – 485053/SVH/A	REV-
SCALE: NONE	DOC NO. RD43619600C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE

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														

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

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael Harash	Yael	6.6.13
CHKD			
CHKD			
CHKD			
DSGN	SERGEY ZEMLIAKOV	S.Z	6.6.13
PROJ	MOTI ROSTMY	M.R	6.6.13
MFG			
QA			
MARK.			

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SPECIFICATION

Subscriber Antenna

MTI PART NO.	MT - 485053/SVH/A
Regularity Compliance	ETSI EN 302 326-3 V1.1.2 (2006-03) RoHS , CE 0682
<u>1. ELECTRICAL</u>	
Frequency Range	5.15 - 5.875 GHz
Gain	19.0 ± 0.5 dBi @ 5.15-5.725 GHz 19.5 ± 0.5 dBi @ 5.725-5.875 GHz
VSWR	1.5 :1 (typ) , 1.7 : 1(max)
Azimuth Beam width	17° (typ)
Elevation Beam width	17° (typ)
Polarization	Dual Linear , Vertical & Horizontal
Azimuth And Elevation Side lobes Level	-10 dB (max)
Cross Polarization	-20 dB (max)
F/B Ratio	-30 dB (max)
Port-To-Port Isolation	30 dB (min)
Input Impedance	50 ohm
Input Power	6W (max)
<u>2. MECHANICAL</u>	
Dimensions (LxWxD)	190x190x30.5 mm (max)
Weight	0.7 kg (max)
Connector	2 x SMA Right angle Female
Radome	Plastic RAL-9003
Base Plate	Aluminum with chemical conversion coating
Outline Drawing	RD43619700C
<u>3. MOUNTING KIT</u>	MT-900016

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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	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
Wind Load (Survival): Front Thrust Side Thrust	- -	- -	- -	10.5 kg 1.6 kg

* IP 67 when antenna installed on the radio enclosure.

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