

Specification for MT – 405042/CVH/C Subscriber Antenna Dual Slant 3.3- 3.8 GHz , 21 dBi

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SCALE: NONE	DOC NO. RD44209600C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE

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

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael Harash	Yael	3.7.17
CHKD	Daniel Zerah		
CHKD			
CHKD	Yehuda Miler		
DSGN	Michael Haikin	M.H	3.7.17
PROJ	Moti Rostmy	M.R	3.7.17
MFG			
QA	Micha Gadot		
MARK.	Erhan Shmulinson		

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SPECIFICATION

Dual Slant Flat Panel Subscriber Antenna

MTI PART NO	MT- 405042/CVH/C
Regulatory Compliance	ETSI EN 302 326-3 V1.1.2. (2006-03) RoHS , CE 0682
<u>1.ELECTRICAL</u>	
Frequency Range	3.3 - 3.8 GHz
Gain	21.0 dBi (typ) 19.5 dBi (min)
VSWR	1.5:1 (typ) 2.2 :1 (max)
3 dB Beam width	12° (typ)
AZ & EL Beam Squint	± 2 °
Polarization	Dual Slant ±45°
Side lobes Level	ETSI EN 302 326-3 V1.1.2. DN3
Cross Polarization	ETSI EN 302 326-3 V1.1.2. DN3
Port To Port Isolation	40 dB (typ) 35 dB (min)
F/B Ratio	ETSI EN 302 326-3 V1.1.2. DN3
Input Impedance	50 (ohm)
Input Power	6W (max)
Lightning Protection	DC grounded
<u>2.MECHANICAL</u>	
Dimensions (L x W x H)	371 x 371 x 40mm (max)
Orientation	Diamond
Weight	2.5 (kg) (max)
Connector	2 x cables with UFL Port VER - length 140mm Port HOR - length 280mm
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating
Outline Drawing	RD44209700C

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3. 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 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	-	-
Flammability	UL 94	-	-	CLASS HB
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	- -	- -	- -	39.6 kg 4.3 kg

NOTE:

* IP 67 when antenna installed on the radio enclosure.

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