

# SPECIFICATION FOR MT-344041/CS/R SUBSCRIBER ANTENNA 2.3 - 2.7 GHz, 17.5 dBi

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MTI WIRELESS EDGE LTD.	MT-344041/CS/R	REV-A
SCALE: NONE	DOC NO RD42275700C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
A	CY47	RELEASED	Yael H.	31.10.07

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<b>PRODUCT STATUS:</b>			
<input type="checkbox"/> PROPOSAL	<input type="checkbox"/> IN DEVELOPMENT	<input type="checkbox"/> PREPRODUCTION	<input checked="" type="checkbox"/> PRODUCTION

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael HARASH	Yael	23.8.07
CHKD	DANIEL ZERAH	D.Z	31.10.07
CHKD			
CHKD			
DSGN	MICHAEL HAIKIN	M.H	31.10.07
PROJ	MOTI ROSTMY	M.R	31.10.07
MFG			
QA	MOTI MOTOVICH	MOTI	31.10.07
MARK.	DAVID SHANI	D.S	31.10.07

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**SPECIFICATION**  
**FLAT PANEL SUBSCRIBER ANTENNA**

<b>MTI PART NUMBER</b>	<b>MT-344041/CS/R</b>
REGULATORY COMPLIANCE	ETSI EN 302 326 V1.1.2. (2006-03) RoHS , CE 0682
<b><u>1. ELECTRICAL</u></b>	
FREQUENCY RANGE	2.3 - 2.7 GHz
GAIN	15.5 dBi (min) 16.0 dBi (max) @ 2.3 GHz 16.5 dBi (min) 17.0 dBi (max) @ 2.4 GHz 17.5 dBi (min) 18.0 dBi (max) @ 2.5 GHz 18.5 dBi (min) 19.0 dBi (max) @ 2.6 GHz 18. dBi (min) 18.5 dBi (max) @ 2.7 GHz
VSWR	1.7 : 1 (max) 1.5 : 1 (typ)
3 dB BEAMWIDTH	25° (typ)
POLARIZATION	Linear (Vertical or Horizontal)
SIDELOBES LEVEL	ETSI EN 302 326 V1.1.2. DN3
CROSS POLARIZATION	ETSI EN 302 326 V1.1.2. DN3 -20 dB (max)
F/B RATIO	ETSI EN 302 326 V1.1.2. DN3 -28 dB(max)
INPUT IMPEDANCE	50 (ohm)
INPUT POWER	6W (max)
LIGHTNING PROTECTION	DC Grounded
<b><u>2. MECHANICAL</u></b>	
PCB DIMENSIONS (LxWxD)	305 x 305 x 25 mm (max)
WEIGHT	1.2 Kg (max)
CONNECTOR	SMA Right Angle plug with 16 cm coaxial cable
RADOME	Plastic UV Resistant (Polycarbonate)
BASE PLATE	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD42275500C

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<b>. ENVIRONMENTAL</b>				
<b>TEST</b>	<b>STANDARD</b>	<b>DURATION</b>	<b>TEMPERTURE</b>	<b>NOTES</b>
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	-	-
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	- -	- -	- -	26.8 kg 2.2 kg

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