

# Specification For MT – 385002/CD Dual Slant $\pm 45$ deg Subscriber Antenna 3.3 – 3.8 GHz, 18 dBi

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MTI WIRELESS EDGE LTD.	MT – 385002/CD	REV-B
SCALE: NONE	DOC NO. RD42409100C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
01		UPFATE GAIN	Yael H.	13.3.08
A	CZ36	RELAESD	Yael H.	16.3.08
B	3116	CHANGE IP FROM 64 TO 65	Yael H.	30.4.08

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	B	B	B	B										

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

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael HARASH	Yael	29.1.08
CHKD	DANIEL ZERAH	D.Z	13.3.08
CHKD			
CHKD			
DSGN	MICHAEL HAIKIN	M.H	6.3.08
PROJ	MOTI ROSTMY	M.R	6.3.08
MFG			
QA	MOTI MOTOVICH	MOTI	10.308
MARK.	DAVID ASHKENAZI	D.A	13.3.08

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## SPECIFICATION

### Dual Slant $\pm 45$ deg Antenna

<b>MTI PART NUMBER</b>	<b>MT 385002/CD</b>
Regulatory Compliance	ETSI EN 302 326-3 V1.1.2 ( 2006 -03 ) RoHS , CE 0682
<b><u>1. ELECTRICAL</u></b>	
Frequency Range	3.3 – 3.8 GHz
Gain	17.5 dBi (min) @ 3.3 – 3.4GHz 18.0 dBi (min) @ 3.4 – 3.7GHz 17.5 dBi (min) @ 3.7 – 3.8GHz
VSWR	2.0 : 1 (max)
3 dB Beamwidth	15° $\pm$ 2°
Polarization	Linear Dual Slant $\pm 45^\circ$
Sidelobes Level	ETSI EN 302 326-3 V1.1.2 DN3
Cross Polarization	ETSI EN 302 326-3 V1.1.2 DN3@ 3.3 - 3.7 GHz DN2@ 3.7 - 3.8 GHz
F/B Ratio	ETSI EN 302 326-3 V1.1.2 DN3 - 30 dB (max)
Port To Port Isolation	25 dB (min) @ 3.3 - 3.6 GHz 23 dB (min) @ 3.6 - 3.7 GHz 20 dB (min) @ 3.7 - 3.8 GHz
Input Impedance	50 Ohms
Input Power	6 Watts
Lightning Protection	DC Grounded
<b><u>2. MECHANICAL</u></b>	
Antenna Dimensions (H x W x D)	305 x 305 x 15 mm (max)
Weight	1.2 (kgs) (max)
Connector	2 x MCX plug with 15 cm coaxial cable RG-316
Radome	Plastic UV Resistant
Base Plate	Aluminum with chemical conversion coating
Outline Drawing	RD42443300C

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<b>3. 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	-	-	IP65
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	- -	- -	- -	26.8 kg 1.3 kg

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