

Specification for MT-221024/NV OMNI Directional Antenna 698-746 MHz, 6.0 dBi

THIS DOCUMENT AND THE INFORMATION CONTAINED IN IT ARE PROPRIETARY AND CONFIDENTIAL TO MTI. NO PERSON IS ALLOWED TO COPY REPRINT REPRODUCE OR PUBLISH ANY PART OF THIS DOCUMENT NOR DISCLOSE ITS CONTENTS TO OTHERS NOR MAKE ANY USE OF IT NOR ALLOW OR ASSIST OTHERS TO MAKE ANY USE OF IT, UNLESS BY THE PRIOR WRITTEN EXPRESS AUTHORIZATION OF MTI AND THEN ONLY TO THE EXTENT AUTHORIZED.

(C) COPYRIGHT – MTI WIRELESS EDGE LTD.

MTI WIRELESS EDGE LTD.	MT-221024/NV	REV-B
SCALE: NONE	DOC NO. RD42863700C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
01		UPDATESPEC	Yael H.	17.3.10
02		DELETE MOUNTING KIT	Yael H.	22.3.10
A	DC31	RELEASED	Yael H.	26.4.10
B	4588	UPDATE HEIGHT OF ANTENNA FROM 1100 TO 1115	Yael H.	2.5.10

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	B	B	B	B										

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

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael	Yael	17.03.10
CHKD	DANIEL ZERAH	D.Z	26.4.10
CHKD			
CHKD			
DSGN	MAURICE DADOUN	M.D	21.4.10
PROJ	MOTI ROSTMY	M.R	19.4.10
MFG			
QA	MOTI MOTOVICH	MOTI	22.4.10
MARK.	DROR REISS	D.R	22.4.10

MTI WIRELESS EDGE LTD.	Specification for MT-221024/NV OMNI Directional Antenna		
DOC NO. RD42863700C	698-746 MHz, 6.0 dBi		
SCALE: NONE	CLASSIFICATION: NONE	REV-B	SHEET 2 OF 4

SPECIFICATION

OMNI Directional Antenna

MTI PART NUMBER		MT-221024/NV
Regulatory Compliance		RoHS , CE 0682
<u>1. ELECTRICAL</u>		
Frequency Range		698 – 746 MHz
VSWR		<1.8 : 1
Gain at Horizon*		6.0 dBi (typ) ; 5.4dBi (min. over freq. range and azimuth ripple)
Azimuth Beam width		360°
Azimuth Ripple		±0.5 dB (max)
Beam Squint (Elevation)		±4° ; (700 – 730MHz: ±2.5°)
E-Plane Beam width		19°±1.5°
Elevation Side-Lobes		-10dB typ., -8.dB max.
Cross Polarization		-15dB (max)
Polarization		Linear Vertical
Input Impedance		50 (ohms)
Power		10 W (max)
Lightning Protection		DC Grounded
<u>2. MECHANICAL</u>		
Dimensions :	Diameter	50.0 mm (max)
	Height	1115 mm (max)
Weight		0.5 kg (max)
Connector		N- type Female
Radome		Plastic
Outline Drawing		RD42999000C

*Gain reflects impact of beam squint, Ripple and Radome.

MTI WIRELESS EDGE LTD.		Specification for MT-221024/NV OMNI Directional Antenna	
DOC NO. RD42863700C		698-746 MHz, 6.0 dBi	
SCALE: NONE	CLASSIFICATION: NONE	REV-B	SHEET 3 OF 4

3. 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 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 Operation	- -	- -	- -	220 Km/h 160 Km/h

MTI WIRELESS EDGE LTD.		Specification for MT-221024/NV OMNI Directional Antenna	
DOC NO. RD42863700C		698-746 MHz, 6.0 dBi	
SCALE: NONE	CLASSIFICATION: NONE	REV-B	SHEET 4 OF 4