



MTI Wireless Edge Ltd.
רח' המלאכה 11 פארק אפק, ראש העין 48091
11 Hamelacha St., Afek Industrial Park, Rosh Ha'ayin 48091, Israel
טל: 972-3-9025050, פקס: 972-3-9025051
www.mti-group.co.il

SPECIFICATION FOR MT – 262013/NRH READER ANTENNA 902-928 MHz, 6 dBil (max)

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 – 262013/NRH	REV-C
SCALE: NONE	DOC NO. RD41790500C	SHEET 1 OF 4

REVISION RECORD				
DATE	APVD	DESCRIPTION	ECO	REV
14.2.06	Yael H.	RELAESD	CV07	A
12.7.06	Yael H.	UPDATE SPEC	1447	B
20.7.06	Yael H.	UPDATE SPEC	1458	C

56	55	54	53	52	51	50	49	48	47	46	45	44	43	SHEET
														REV
42	41	40	39	38	37	36	35	34	33	32	31	30	29	SHEET
														REV
28	27	26	25	24	23	22	21	20	19	18	17	16	15	SHEET
														REV
14	13	12	11	10	9	8	7	6	5	4	3	2	1	SHEET
										C	C	C	C	REV

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

CONTRACT NO			
DATE	SIGN	NAME	ACTION
18.1.06	Y.H	Yael HRASH	PREP
20.3.06	D.F	DOV FEINER	CHKD
			CHKD
			CHKD
18.1.06	S.Z	SERGEY ZEMLYAKOV	DSGN
19.1.06	A.D	ALEX DRAGILEV	PROJ
			MFG
25.1..06	MOTI	MOTI MOTOVICH	QA
15.2.06	D.S	DAVID SHANI	MARK.

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 262013/NRH READER ANTENNA		
DOC NO. RD41790500C	902-928 MHz, 7.5 dBic		
SCALE: NONE	CLASSIFICATION: NONE	REV-C	SHEET 2 OF 4

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 262013/NRH READER ANTENNA		
DOC NO. RD41790500C	902-928 MHz, 7.5 dBic		
SCALE: NONE	CLASSIFICATION: NONE	REV-C	SHEET 3 OF 4

SPECIFICATION

FLAT PANEL READER ANTENNA

MTI PART NUMBER	MT – 262013/NRH
REGULATORY COMPLIANCE	RoHS , CE 0682
<u>1. ELECTRICAL</u>	
FREQUENCY RANGE	902-928 MHz
GAIN	6 dBil (Max)
VSWR	1.3:1 (max)
AZIMUTH 3 dB BEAMWIDTH	70° ±3°
ELEVATION 3 dB BEAMWIDTH	71° ±1°
POLARIZATION	RHCP
SIDELOBES LEVEL AND FRONT TO BACK	-19 dB (max)
AXIAL RATIO AT BORESIGHT	1 dB (typ) 1.3 dB (max)
INPUT IMPEDANCE	50 (Ohm)
INPUT POWER	6 W (max)
LIGHTNING PROTECTION	DC Grounded
<u>2. MECHANICAL</u>	
DIMENSIONS (LxWxD)	190x190x30 mm (max)
ORIENTATION	Rectangular
WEIGHT	0.8 kg (max)
CONNECTOR	N - type Female
RADOME	Plastic UV Resistant per ETSI 300
BASE PLATE	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD41790600C
<u>3. MOUNTING KIT</u>	
	SEE RD41191800C

MTI WIRELESS EDGE LTD.		SPECIFICATION FOR MT – 262013/NRH READER ANTENNA	
DOC NO. RD41790500C		902-928 MHz, 7.5 dBic	
SCALE: NONE	CLASSIFICATION: NONE	REV-C	SHEET 4 OF 4

4. 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
THERMAL SHOCK NONO-OPERATING			-30°C to +70°C	Ramp 30°C/min
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
WATER TIGHTNESS	IEC 529	-	-	IP54
DUST RESISTANCE				IP54
SOLAR RADIATION	ASTM G53	1000 h	-	-
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94	-	-	Class HB
QUASI RANDOM VIBRATION				20g rms for 4 hours
VEHICLE VIBRATION OPERATING	1g rms, 10-500 Hz, in 3 axis			6 hours total, 2 hr in each axis. Accelerated wear – an additional 50hrs in worst case axis.
MECHANICAL SHOCK OPERATING	10g, 11 msec, half sine pulse			

* IP 67 AVAILABLE UPON REQUEST

MTI WIRELESS EDGE LTD.		SPECIFICATION FOR MT – 262013/NRH READER ANTENNA	
DOC NO. RD41790500C		902-928 MHz, 7.5 dBic	
SCALE: NONE	CLASSIFICATION: NONE	REV-C	SHEET 5 OF 4