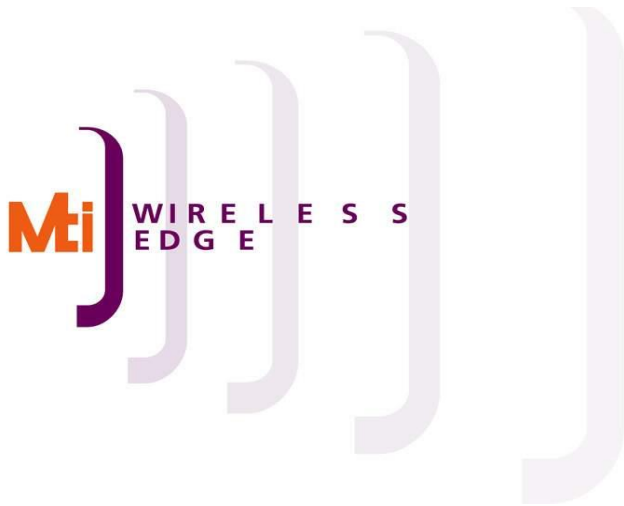




MTI Wireless Edge Ltd.

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 – 262006/TRH/A/K RHCP READER ANTENNA 902-928 MHz, 9 dBic

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 – 262006/TRH/A/K	REV-A
SCALE: NONE	DOC NO. RD41880600C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
A	CV57	RELAESD	Yael H.	15.5.06

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	A	A	A	A										

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

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	YAKOV SALERNO.	YAKOV	14.5.06
CHKD	DOV FEINER		
CHKD			
CHKD			
DSGN	ASAF HVIV	A.H	15.5.06
PROJ	ALEX DRAGILEV	A.D	15.5.06
MFG			
QA	MOTI MOTOVICH	MOTI	15.5.06
MARK.	DAVID SHANI	D.S	15.5.06

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 262006/TRH/A/K		
DOC NO. RD41880600C	RHCP READER ANTENNA		
	902-928 MHz,9 dBic		
SCALE: NONE	CLASSIFICATION: NONE	REV-A	SHEET 2 OF 4

SPECIFICATION

FLAT PANEL READER ANTENNA

MTI PART NUMBER	MT – 262006/TRH/A/K
REGULATORY COMPLIANCE	RoHS , CE 0682
<u>1. ELECTRICAL</u>	
FREQUENCY RANGE	902 - 928 MHz
GAIN	9dBic (min) , 9dBil (max)
VSWR	1.3:1 (max) 1.4:1 (max) @ LESS THAN10% of the range
AZIMUTH 3 dB BEAMWIDTH	63° (typ)
ELEVATION 3 dB BEAMWIDTH	63° (typ)
POLARIZATION	RHCP
SIDELOBES LEVEL @ 90°	-16 dB (max)
AXIAL RATIO AT BORESIGHT	4 dB (max)
F/B RATIO	-18 dB (max) -20 dB (typ)
INPUT IMPEDANCE	50 (Ohm)
INPUT POWER	6 W (max)
LIGHTNING PROTECTION	DC Grounded
<u>2. MECHANICAL</u>	
DIMENSIONS (LxWxD)	305x305x25 mm
ORIENTATION	Rectangular
WEIGHT	1.2 kg (max)
CONNECTOR	Reverse Polarity TNC Female
RADOME	Plastic UV Resistant per ETSI 300
BASE PLATE	Aluminum with chemical conversion coating
OUTLIN DRAWING	RD41880300C
<u>3. MOUNTING KIT</u>	
MOUNTING KIT	SEE RD41191800C

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 262006/TRH/A/K RHCP READER ANTENNA		
DOC NO. RD41880600C	902-928 MHz,9 dBic		
SCALE: NONE	CLASSIFICATION: NONE	REV-A	SHEET 3 OF 4

4. 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
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	-	-	IP67
DUST RESISTANCE				IP67
SOLAR RADIATION	ASTM G53	1000 h	-	-
OZONE RESISTANCE	ETSI 300			
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
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			

MTI WIRELESS EDGE LTD.		SPECIFICATION FOR MT – 262006/TRH/A/K	
DOC NO. RD41880600C		RHCP READER ANTENNA	
		902-928 MHz,9 dBic	
SCALE: NONE	CLASSIFICATION: NONE	REV-A	SHEET 4 OF 4