

# **REVISION RECORD**

| REV | ECO   | DESCRIPTION     | APVD    | DATE     |
|-----|-------|-----------------|---------|----------|
| A   | CX62  | RELEASED        | Yael H. | 28.3.04  |
| B   | 00492 | CHANGE FREQ.    | Yael H. | 11.5.04  |
| C   | 1292  | ADD RoHS AND CE | Yael H. | 1.3.06   |
| D   | 1430  | CHANGE FREQ.    | Yael H. | 22.6.06  |
| E   | 1437  | CHANGE FREQ     | Yael H. | 3.7.06   |
| F   | 1449  | CHANGE GAIN     | Yael H. | 13.7.06  |
| G   | 3307  | CHANGE FREQ.    | Yael H. | 10.11.08 |

|       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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   | G  | G  | G  |    |    |    |    |    |    |    |    |    |    |    |

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## **PRODUCT STATUS:**

☐ PROPOSAL,      ☐ INDEVELOPMENT  
☐ PREPRODUCTION,   ☒ PRODUCTION



**WIRELESS EDGE LTD.**

| ACTION | NAME       | SIGN | DATE    |                                                                                                                         |                |              |
|--------|------------|------|---------|-------------------------------------------------------------------------------------------------------------------------|----------------|--------------|
| PREP   | Y.HARASH   | Y.H  | 22.3.04 | <b>TITLE</b><br><b>SPECIFICATION FOR MT – 485028/C/A</b><br><b>SUBSCRIBER ANTENNA</b><br><b>4.94 – 6.0 GHz , 22 dBi</b> |                |              |
| CHKD   | D.FAINER   | D.F  | 25.3.04 |                                                                                                                         |                |              |
| DSGN   | M.HAIKIN   | M.H  | 22.3.04 |                                                                                                                         |                |              |
| PROJ   | M.ROSTMY   | M.R  | 22.3.04 |                                                                                                                         |                |              |
| MFG    |            |      |         | SIZE                                                                                                                    | CLASSIFICATION | DWG NO       |
| QA     | M.MOTOVICH | MOTI | 23.3.04 | A                                                                                                                       | NONE           | RD41453700C  |
| MARK.  | E.AGMON    | E.A  | 25.3.04 | SCALE NONE                                                                                                              |                | SHEET 1 OF 3 |

## SPECIFICATION

### FLAT PANEL SUBSCRIBER ANTENNA

| MTI PART NUMBER             | MT – 485028 / C/A                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulatory Compliance       | ETSI EN 302 085 V1.1.2 (2001-02) Range 1                                                                                                                        |
|                             | RoHS , CE 0682                                                                                                                                                  |
|                             |                                                                                                                                                                 |
| <b><u>1. ELECTRICAL</u></b> |                                                                                                                                                                 |
|                             |                                                                                                                                                                 |
| Frequency Range             | 4.94 -6.0 GHz                                                                                                                                                   |
| Gain                        | 18.5dBi (min) @ 4.94-5.0 GHz<br>19.0dBi (min) @ 5.0-5.15 GHz<br>21.5dBi (min) @ 5.15-5.25 GHz<br>22.0dBi (min) @ 5.25-5.875GHz<br>21.0dBi (min) @ 5.875-6.0 GHz |
| VSWR                        | 2.3:1 (max) @ 4.94-5.0 GHz<br>2.0:1 (max) @ 5.0-5.15 GHz<br>1.7:1 (max) @ 5.15-6.0 GHz                                                                          |
| 3 dB Beamwidth              | 10° (typ)                                                                                                                                                       |
| Polarization                | Linear (Vertical or Horizontal)                                                                                                                                 |
| Sidelobes Level             | ETSI EN 302 085 V1.1.2 (2001-02) TS1-TS3<br>-10dB (max) @ 4.94 - 5.15GHz                                                                                        |
| Cross Polarization          | ETSI EN 302 085 V1.1.2 (2001-02) TS1-TS3<br>-15dB (max) @ 4.94 - 5.15GHz                                                                                        |
| F/B Ratio                   | -35 dB (max)                                                                                                                                                    |
| Input Impedance             | 50 Ohms                                                                                                                                                         |
| Input Power                 | 6W (max)                                                                                                                                                        |
| Lightning Protection        | DC Grounded                                                                                                                                                     |
|                             |                                                                                                                                                                 |
| <b><u>2. MECHANICAL</u></b> |                                                                                                                                                                 |
|                             |                                                                                                                                                                 |
| Dimensions (LxWxD)          | 305 x 305 x 15 mm (max)                                                                                                                                         |
| Weight                      | 1.2 (kgs) (max)                                                                                                                                                 |
| Connector                   | 18 cm cable RG316 with MCX right angle connector                                                                                                                |
| Radome                      | Plastic                                                                                                                                                         |
| Base Plate                  | Aluminum with chemical conversion coating                                                                                                                       |
| Outline Drawing             | RD41453300C                                                                                                                                                     |
|                             |                                                                                                                                                                 |

|            |                   |              |     |
|------------|-------------------|--------------|-----|
| SIZE       | MTI WIRELESS EDGE | DWG NO       | REV |
| A          |                   | RD41453700C  | G   |
| SCALE NONE |                   | SHEET 2 OF 3 |     |

| <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              | -               | -                 | IP67                 |
| Solar Radiation                                      | ASTM G53             | 1000 h          | -                 | -                    |
| Salt Spray                                           | IEC 68-2-11 Ka       | 500 h           | -                 | -                    |
| Ice And Snow                                         | -                    | -               | -                 | 25mm Radial          |
| Wind Speed Survival Operation                        | -<br>-               | -<br>-          | -<br>-            | 220 Km/h<br>160 Km/h |
| Wind Load (Survival):<br>Front Thrust<br>Side Thrust | -<br>-               | -<br>-          | -<br>-            | 26.8 kg<br>1.3 kg    |

|            |                   |                       |          |
|------------|-------------------|-----------------------|----------|
| SIZE<br>A  | MTI WIRELESS EDGE | DWG NO<br>RD41453700C | REV<br>G |
| SCALE NONE |                   | SHEET 3 OF 3          |          |