

# **Specification for MT -404081/ND Double Dual Slant Base Station Antenna 3.3 – 3.8 GHz, 17dBi, 65°**

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|                        |                     |              |
|------------------------|---------------------|--------------|
| MTI WIRELESS EDGE LTD. | MT – 404081/ND      | REV-         |
| SCALE: NONE            | DOC NO. RD42811700C | SHEET 1 OF 4 |

| REVISION RECORD |     |             |      |      |
|-----------------|-----|-------------|------|------|
| REV             | ECO | DESCRIPTION | APVD | DATE |
|                 |     |             |      |      |
|                 |     |             |      |      |
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|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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>PRODUCT STATUS:</b>            |                                         |                                                   |                                     |
| <input type="checkbox"/> PROPOSAL | <input type="checkbox"/> IN DEVELOPMENT | <input checked="" type="checkbox"/> PREPRODUCTION | <input type="checkbox"/> PRODUCTION |

| CONTRACT NO |                  |      |         |
|-------------|------------------|------|---------|
| ACTION      | NAME             | SIGN | DATE    |
| PREP        | Yael HARASH      | Yael | 29.6.09 |
| CHKD        | DANIEL ZERAH     |      |         |
| CHKD        |                  |      |         |
| CHKD        |                  |      |         |
| DSGN        | SERGEY ZEMLYAKOV | S.Z  | 29.6.09 |
| PROJ        | NISSIM FINTS     | N.F  | 29.6.09 |
| MFG         |                  |      |         |
| QA          | MOTI MOTOVICH    |      |         |
| MARK.       | DAVID SHANI      |      |         |

|                        |                      |                                        |              |
|------------------------|----------------------|----------------------------------------|--------------|
| MTI WIRELESS EDGE LTD. |                      | SPECIFICATION FOR MT – 404081/ND       |              |
| DOC NO. RD42811700C    |                      | Double Dual Slant Base Station Antenna |              |
|                        |                      | 3.3 – 3.8 GHz, 17dBi, 65°              |              |
| SCALE: NONE            | CLASSIFICATION: NONE | REV-                                   | SHEET 2 OF 4 |

## SPECIFICATION

### Base Station Antenna

| MTI PART NUMBER                                                         | MT – 404081/ND                                       |
|-------------------------------------------------------------------------|------------------------------------------------------|
| Regulatory Compliance                                                   | ETSI EN 302 326 V.1.1.2 (2006-03)<br>RoHS , CE 0682  |
| <b>1. ELECTRICAL</b>                                                    |                                                      |
| Frequency Range                                                         | 3.3 – 3.8 GHz                                        |
| Gain                                                                    | 17±0.5 dBi (min)                                     |
| VSWR                                                                    | 1.5 :1 (typ) , 1.8 : 1 (max)                         |
| Azimuth Beamwidth @ 13.5dBi                                             | 65° (typ)                                            |
| Elevation Beamwidth @ -3dB                                              | 7.5° (typ)                                           |
| Polarization                                                            | Double Dual Linear, ±45°                             |
| Cross Polarization                                                      | ETSI EN 302 326 V.1.1.2 (2006-03)                    |
| Side Lobes Level Azimuth & Elevation                                    | Meets ETSI EN 302 326 V.1.1.2 (2006-03)              |
| Side Lobes Level for Azimuth in the range (±100 to ±180 from Boresight) | -25dB (max) @ 3.3-3.5GHz<br>-30dB (max) @ 3.5-3.8GHz |
| Front to Back Ratio                                                     | ETSI EN 302 326 V.1.1.2 (2006-03)<br>-30dB (max)     |
| Port To Port Isolation                                                  | 25 dB (min)                                          |
| Input Impedance                                                         | 50 Ω                                                 |
| Input Power                                                             | 20W (CW) , 250W (peak)                               |
| Lightning Protection                                                    | DC Grounded                                          |
| <b>2. MECHANICAL</b>                                                    |                                                      |
| Dimensions ( L x W x D )                                                | 600 x 270 x 63 mm (max)                              |
| Weight                                                                  | 2.5 kg (max)                                         |
| Connectors                                                              | 4 x N – Type female                                  |
| Radome                                                                  | Plastic UV Resistant                                 |
| Base Plate                                                              | Aluminum with chemical conversion coating            |
| Outline Drawing                                                         | RD42812000C                                          |
| Mechanical down Tilt                                                    | 0° to (-10°)                                         |
| <b>3. MOUNTING KIT *</b>                                                | SEE RD41191800C, MT-120025                           |

**\* To connected two Antennas MT-404067/ND use adapting plate MT-959567**

|                        |                                                                            |      |              |
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| <b>4. 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              | -               | -                 | IP54                |
| 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>-          |                   | 220 km/h<br>160 km/ |
| Wind Load (Survival):<br>Front Thrust<br>Side Thrust | -<br>-               | -<br>-          | -<br>-            | 51.4 kg<br>10.8 kg  |

|                               |                             |                                               |                     |
|-------------------------------|-----------------------------|-----------------------------------------------|---------------------|
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