

# **Specification for MT – 405042/CVH/C Subscriber Antenna Dual Slant 3.3- 3.8 GHz , 21 dBi**

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| MTI WIRELESS EDGE LTD. | MT – 405042/CVH/C   | REV-         |
| SCALE: NONE            | DOC NO. RD44209600C | SHEET 1 OF 4 |

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

| CONTRACT NO |                  |      |        |
|-------------|------------------|------|--------|
| ACTION      | NAME             | SIGN | DATE   |
| PREP        | Yael Harash      | Yael | 3.7.17 |
| CHKD        | Daniel Zerah     |      |        |
| CHKD        |                  |      |        |
| CHKD        | Yehuda Miler     |      |        |
| DSGN        | Michael Haikin   | M.H  | 3.7.17 |
| PROJ        | Moti Rostmy      | M.R  | 3.7.17 |
| MFG         |                  |      |        |
| QA          | Micha Gadot      |      |        |
| MARK.       | Erhan Shmulinson |      |        |

|                        |                      |                                    |              |
|------------------------|----------------------|------------------------------------|--------------|
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| DOC NO. RD44209600C    |                      | Subscriber Antenna Dual Slant      |              |
|                        |                      | 3.3 - 3.8 GHz, 21 dBi              |              |
| SCALE: NONE            | CLASSIFICATION: NONE | REV-                               | SHEET 2 OF 4 |

## **SPECIFICATION**

### **Dual Slant Flat Panel Subscriber Antenna**

| <b>MTI PART NO</b>         | <b>MT- 405042/CVH/C</b>                                                   |
|----------------------------|---------------------------------------------------------------------------|
| Regulatory Compliance      | ETSI EN 302 326-3 V1.1.2. (2006-03)<br>RoHS , CE 0682                     |
|                            |                                                                           |
| <b><u>1.ELECTRICAL</u></b> |                                                                           |
|                            |                                                                           |
| Frequency Range            | 3.3 - 3.8 GHz                                                             |
| Gain                       | 21.0 dBi (typ) 19.5 dBi (min)                                             |
| VSWR                       | 1.5:1 (typ) 2.2 :1 (max)                                                  |
| 3 dB Beam width            | 12° (typ)                                                                 |
| AZ & EL Beam Squint        | ± 2 °                                                                     |
| Polarization               | Dual Slant ±45°                                                           |
| Side lobes Level           | ETSI EN 302 326-3 V1.1.2. DN3                                             |
| Cross Polarization         | ETSI EN 302 326-3 V1.1.2. DN3                                             |
| Port To Port Isolation     | 40 dB (typ) 35 dB (min)                                                   |
| F/B Ratio                  | ETSI EN 302 326-3 V1.1.2. DN3                                             |
| Input Impedance            | 50 (ohm)                                                                  |
| Input Power                | 6W (max)                                                                  |
| Lightning Protection       | DC grounded                                                               |
|                            |                                                                           |
| <b><u>2.MECHANICAL</u></b> |                                                                           |
|                            |                                                                           |
| Dimensions ( L x W x H )   | 371 x 371 x 40mm (max)                                                    |
| Orientation                | Diamond                                                                   |
| Weight                     | 2.5 (kg) (max)                                                            |
| Connector                  | 2 x cables with UFL<br>Port VER - length 140mm<br>Port HOR - length 280mm |
| Radome                     | Plastic                                                                   |
| Base Plate                 | Aluminum with chemical conversion coating                                 |
| Outline Drawing            | RD44209700C                                                               |
|                            |                                                                           |

|                               |                             |                                           |                     |
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| <b>3. ENVIRONMENTAL</b>                              |                      |                 |                    |                      |
|------------------------------------------------------|----------------------|-----------------|--------------------|----------------------|
| <b>TEST</b>                                          | <b>STANDARD</b>      | <b>DURATION</b> | <b>TEMPERATURE</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 4M3           |
| Shock Mechanical                                     | IEC 60721-3-4        | -               | -                  | 4M3                  |
| Humidity                                             | ETSI EN300-2-4 T4.1E | 144 h           | -                  | 95%                  |
| Water Tightness                                      | IEC 529              | -               | -                  | IP67*                |
| Solar Radiation                                      | ASTM G53             | 2000 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<br>160 Km/h |
| Wind Load (Survival):<br>Front Thrust<br>Side Thrust | -<br>-               | -<br>-          | -<br>-             | 39.6 kg<br>4.3 kg    |

NOTE:

\* IP 67 when antenna installed on the radio enclosure.

|                               |                             |                                           |                     |
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