

# CMA-B/3324/E00

# CMA-B/3324/E02

## GSM / CDMA: 1800, 1900 & 2100

### Electrical specification:

|                                  |       |                            |
|----------------------------------|-------|----------------------------|
| Frequency range                  | 1800: | 1710-1880 MHz              |
|                                  | 1900: | 1850-1990 MHz              |
|                                  | 2100: | 1920-2170 MHz              |
| Polarization                     |       | Dual linear $\pm 45^\circ$ |
| Gain (median over band)          | 1800: | 2 x 23.3 dBi               |
|                                  | 1900: | 2 x 23.4 dBi               |
|                                  | 2100: | 2 x 24.4 dBi               |
| Horizontal = 3 dB beamwidth      |       | $33^\circ \pm 3^\circ$     |
| Vertical = 3 dB beamwidth        | 1800: | $4.6^\circ \pm 0.3^\circ$  |
|                                  | 1900: | $4.2^\circ \pm 0.2^\circ$  |
|                                  | 2100: | $3.9^\circ \pm 0.3^\circ$  |
| Fixed electrical downtilt        |       | $0^\circ$ and $2^\circ$    |
| VSWR                             | 1800: | <1.5:1                     |
|                                  | 1900: | <1.4:1                     |
|                                  | 2100: | <1.4:1                     |
| Horizontal sidelobe suppression  |       | >16 dB                     |
| Isolation between inputs         |       | >30 dB                     |
| Front to back ratio              |       | >30 dB                     |
| First upper sidelobe suppression |       | >18 dB                     |
| First nullfill below horizon     |       | <20 dB                     |
| Cross-polar discrimination       |       | >20 dB                     |
| Inter modulation, IM3 (GSM)      |       | >153 dBc@2x43 dBm          |
| Inter modulation, IM7 (UMTS)     |       | >163 dBc@2x43 dBm          |
| Antenna Efficiency*              |       | 94 %                       |
| Nominal impedance                |       | 50 $\Omega$                |
| Max power per input              |       | 500 W                      |

### Mechanical specification:

|                            |                                      |
|----------------------------|--------------------------------------|
| Connectors                 | 2 x 7/16 female                      |
| Connector position         | Bottom                               |
| Lightning protection       | DC grounded                          |
| Height/Width/Depth mm (in) | 2070 (81.5) / 288 (11.3) / 125 (4.9) |
| Antenna weight             | 21 kg (46 lb)                        |

|                                |          |                      |
|--------------------------------|----------|----------------------|
| Wind load at 42 m/s (94 mph) : | Frontal: | 574 N (129 lbf)      |
|                                | Lateral: | 186 N (42 lbf)       |
|                                | Rear:    | 481 N (108 lbf)      |
| Survival wind speed            |          | 60 m/s (134 mph)     |
| Colour radome                  |          | Light Grey, RAL 7035 |
| Radome material                |          | ASA                  |

### Mounting hardware:

|                           |                                  |
|---------------------------|----------------------------------|
| Mounting bracket          | 2                                |
| Bracket weight (complete) | 5.2 kg (11.5 lb)                 |
| Pole diameter             | 45-120 mm (1.8-4.7 in)           |
| Tilt bracket              | $0^\circ$ - $5^\circ$ mechanical |

### Ordering information:

|     |        |
|-----|--------|
| E00 | 110005 |
| E02 | 110010 |

CellMax Technologies AB reserves the right to modify or change the above specifications without notice.

\* Based on true measurements and calculated according to  $P_{rad}/P_{in}$ .  
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