

# FDD 8T8R Beamforming

Model: EHS1T102A



EAHISON

## ELECTRICAL SPECIFICATIONS

| Frequency Range (MHz)                           | R1/R2                 | Y1/Y2/Y3/Y4    |
|-------------------------------------------------|-----------------------|----------------|
|                                                 | 690-960               | 1710-2690      |
| Polarization                                    | $\pm 45^\circ$        |                |
| Gain over all tilts (dBi)                       | $\geq 15$             | $\geq 17$      |
| Horizontal 3dB beam width( $^\circ$ )           | 65                    | 65             |
| Vertical 3dB beam width( $^\circ$ )             | $\leq 9 \pm 2$        | $\leq 5 \pm 1$ |
| Front to back ratio(dB)                         | $\geq 25$             | $\geq 25$      |
| Cross polar ratio( $0^\circ$ )(dB)              | $\geq 15$             | $\geq 15$      |
| Upper side lobe suppression (dB)                | $\geq 15$             | $\geq 15$      |
| Electrical Downtilt ( $^\circ$ )                | 2-12                  | 2-12           |
| Electrical Downtilt accuracy ( $^\circ$ )       | $\pm 1$               |                |
| Ports VSWR                                      | $\leq 1.5$            |                |
| Isolation: intra-system (dB)                    | $\geq 25$             |                |
| Isolation: inter-system (dB)                    | $\geq 25$             |                |
| Intermodulation IM3 ( $2 \times 43\text{dBm}$ ) | $\leq -153\text{dBc}$ |                |
| Impedance ( $\Omega$ )                          | 50                    |                |
| Max Input Power (W)                             | 1200                  |                |

## MECHANICAL SPECIFICATIONS

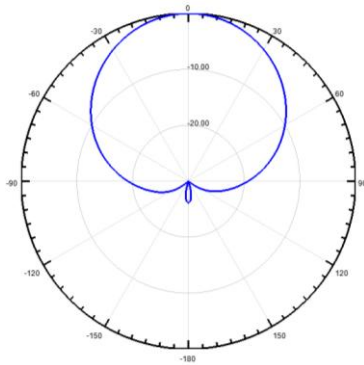
|                                                      |                                           |
|------------------------------------------------------|-------------------------------------------|
| Connector(s)                                         | 12 $\times$ 4.3-10 female+CAL port female |
| Connector position                                   | Bottom                                    |
| Antenna Dimensions (mm)                              | 2300 $\times$ 500 $\times$ 158            |
| Packing Dimensions (mm)                              | /                                         |
| Mechanical Downtilt kits ( $^\circ$ )                | 0-12                                      |
| Radome Color                                         | light gray                                |
| Radome Material                                      | Fiberglass                                |
| Antenna weight (kg)                                  | $\leq 42$                                 |
| Packing weight (kg)                                  | /                                         |
| Wind load (N,at 150km/h)<br>Frontal/Lateral/Rearside | /                                         |
| Operating temperature ( $^\circ\text{C}$ )           | -40 $\sim$ +60                            |
| Maximum Wind Speed(km/h)                             | 200                                       |
| Mounting Pipe Diameter (mm)                          | $\Phi 50 \sim \Phi 115$                   |
| RET type                                             | Replaceable Integrated RET                |

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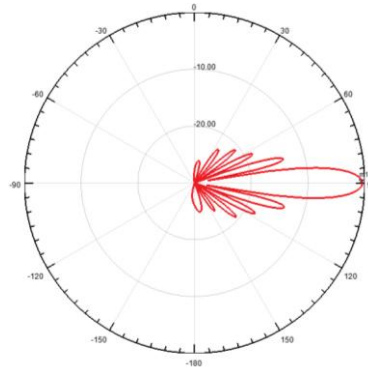
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EAHiSON



H Pattern



E Pattern

