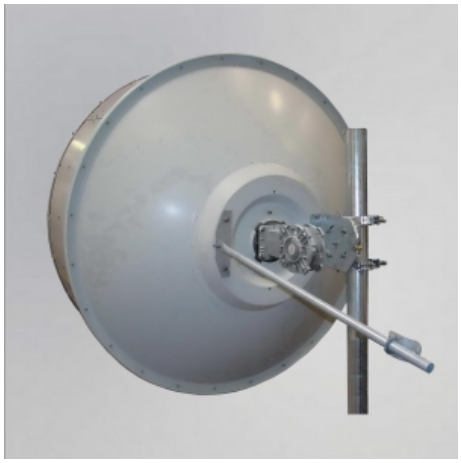
# Antenna THP 18-100 DI WB

Antenna THP 18-100 DI WB



## General Specifications

| | |
|---|---|
| Diameter | 1.8m |
| Standard Colour | RAL 7035 |
| Shroud | Low profile |
| Antenna Input | Interface for IEC waveguide R 100 |
| Polarization | Dual |

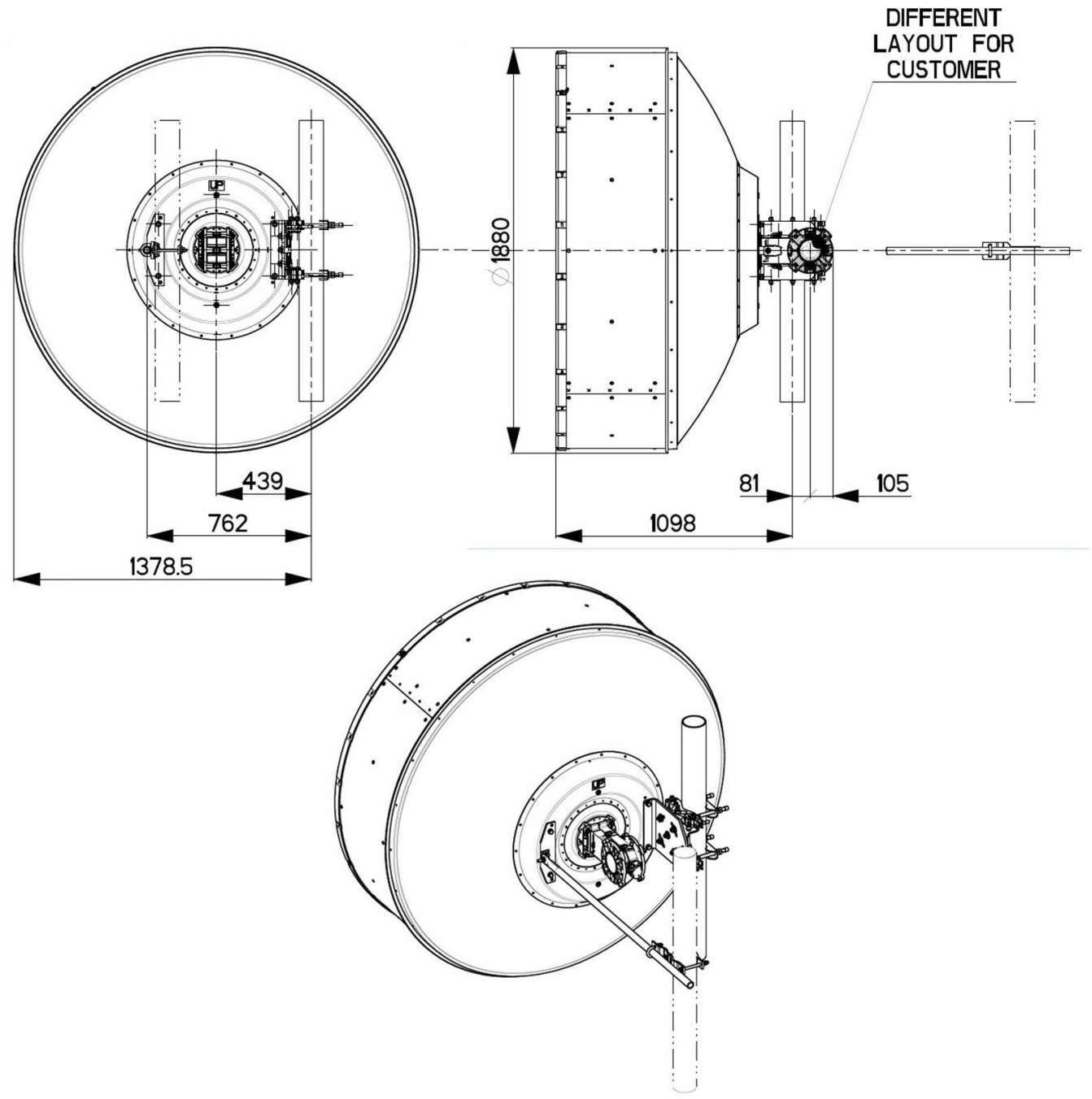
## Mechanical Characteristics

| | |
|---|---|
| Pole | 115 mm |
| Elevation-fine adjustment | +/- 15 deg |
| Azimuth-fine adjustment | +/- 10 deg |
| Side struts, included | 1 |
| Side struts, optional | 1 |
| Net weight | 90 Kg |
| Radome | Rigid plastic |
| Wind velocity Operational | 180 Km/h |
| Wind velocity Survival | 250 Km/h |
| Wind deflection | <0.3 times the -3 dB beamwidth |
| (with a wind velocity of 45 m/s) | Specified wind deflection applies for 115 mm dia mounting pipe only |

# Antenna Dimensions

(pole mount included)

| | |
|---|---|
| Height | 1880 mm |
| Width | 1880 mm |
| Depth | 1284 mm |



## Wind forces at wind velocity survival rating and with 25 mm (1") ice load

| | |
|---|---|
| Axial force | 11094 N |
| Side force | 5495 N |
| Twisting Moment | 5550 N*m |

Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most critical direction for each parameter. These values may not occur simultaneously. All forces are referenced to the mounting pipe (diameter 115 mm)

## Electrical Characteristics

| | |
|---|---|
| Frequency range | 10 - 11.7 GHz |
| Gain, low band | 42.1 dBi |
| Gain, mid band | 43.0 dBi |
| Gain, top band | 43.8 dBi |
| Return Loss | 17.7 dB |
| VSWR | 1.3 |
| HPBW | 1.1 deg |
| Front to back ratio | 71 dB |
| Isolation | 35 dB |
| XPD | 30 dB |
| Electrical Compliance | ETSI 302 217 Class 3 |
| | US FCC Part 101.115B |

## Shipping Information

| | |
|---|---|
| Gross weight | 135 Kg |
| Height | 2090 mm |
| Depth | 600 mm |
| Width | 1970 mm |

| faini telecommunication systems | RADIATION PATTERN ENVELOPE<br>ANTENNA TYPE THP 18-100 WB | 1799 |
|---|---|---|

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FREQUENCY BAND: 10000 to 11700 MHz
DIAMETER: 1.8 m

