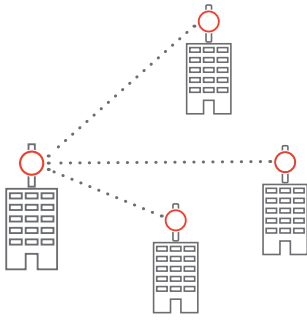


# Sectoral Antennas

Portfolio

10 / 26 / 28 GHz



FIA-Faini has introduced a new line of Point-to-Multipoint (PtMP) sectoral antennas 90° that operate at different frequency ranges and gains. The antennas are suitable for both standalone and direct-mount installation, as they are compatible with the interfaces available by the major radio brands.

Their highly-robust design makes FIA-Faini's sectoral antennas the best choice for installation at premises with extreme environmental conditions and with high wind velocity, up to 250 Km/h.

The FIA-Faini's product portfolio also includes a symmetrical directional coupler, with enhanced inter-port isolation. It is suitable for combining a pair of sectoral antennas in order to cover wider azimuth angles.

|   | HANT 1090 V           | HANT 1090 H     | SEC90-26G-HG-HPOL | SEC90-26G-HG-VPOL | SEC90-26G-SG-HPOL | SEC90-26G-SG-VPOL | SEC90-28G-HG-HPOL             | SEC90-28G-HG-VPOL | SEC90-28G-SG-HPOL | SEC90-28G-SG-VPOL | SEC150-26G-HPOL | SEC150-26G-VPOL | SEC150-28G-HPOL | SEC150-28G-VPOL | SEC90-2628WB-HPOL | SEC90-2628WB-VPOL | SEC90-2628WB-DP                  | OMNI-2628-VPOL |              |  |           |
|---|-----------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|----------------------------------|----------------|--------------|--|-----------|
| Frequency range, GHz                                      | 10.15-10.65           |                 | 24.25-26.50       |                   |                   |                   | 27.50-29.50                   |                   |                   |                   | 24.25-26.50     |                 | 27.50-29.50     |                 | 24.25-29.50       |                   | 24.50-29.50                      |                |              |  |           |
| Type  | Sectoral 90°          |                 |                   |                   |                   |                   |                               |                   |                   |                   |                 |                 |                 |                 |                   |                   | Sectoral 150°                    |                | Sectoral 90° |  | Omni 360° |
| Gain, dBi   | 15.5                  | 16.0            | 18.5              | 19.0              | 15.0              | 15.5              | 19.0                          | 15.0              | 15.0              | 15.5              | 13.5            | 12.0            | 13.5            | 12.0            | 15.0              |                   | 10.0                             |                |              |  |           |
| Polarization  | V                     | H               | H                 | V                 | H                 | V                 | H                             | V                 | H                 | V                 | H               | V               | H               | V               | H                 | V                 | dual pol (V+H)                   | V              |              |  |           |
| HPBW, deg (Azimuth / Elevation)                           | 90/10                 | 90/8            | 90/4              |                   | 90/11             |                   | 90/4                          |                   | 90/11             |                   | 150/10          |                 | 150/10          |                 | 90/11             |                   | 360/8                            |                |              |  |           |
| Return Loss, dB   | ≤-14                  |                 | ≤-10              |                   | ≤-15              |                   | ≤-10                          |                   |                   |                   | ≤-10            |                 | ≤-10            |                 | ≤-10              |                   | ≤-9                              |                |              |  |           |
| F/B, dB   | 35                    |                 | 30                |                   |                   |                   |                               |                   |                   |                   |                 |                 |                 |                 |                   |                   |                                  |                | 40           |  | N/A       |
| XPD, dB   | 30                    |                 | 25                |                   |                   |                   |                               |                   |                   |                   |                 |                 |                 |                 |                   |                   |                                  |                | 30           |  | 25        |
| Electrical Compliance                                     | ETSI EN 302 326-3 SS3 |                 |                   |                   |                   |                   | ETSI EN 302 326-3 V1.3.1 SS2b |                   |                   |                   |                 |                 |                 |                 |                   |                   |                                  |                | N/A          |  |           |
| Input flange  | R120 or customized    |                 | UBR220 (WR42)     |                   |                   |                   | UBR320 (WR28)                 |                   |                   |                   | UBR220 (WR42)   |                 | UBR320 (WR28)   |                 | UBR260 (WR34)     |                   | dual UBR260 (WR34)               | UBR260 (WR34)  |              |  |           |
| Lighting Protection                                       | DC grounded           |                 |                   |                   |                   |                   |                               |                   |                   |                   |                 |                 |                 |                 |                   |                   |                                  |                |              |  |           |
| EL / AZ fine adjustment, deg                              | ±15 / ±20             |                 |                   |                   |                   |                   |                               |                   |                   |                   |                 |                 |                 |                 |                   |                   | 4 deg fixed electrical down-tilt |                |              |  |           |
| Net Weight, Kg (with Mounting Bracket)                    | 8.5                   | 10.0            | 7.9               |                   |                   |                   | 7.5                           |                   |                   |                   | 8.5             |                 | 9               |                 | 3.2               |                   |                                  |                |              |  |           |
| Operating Temperature °C                                  | -40 to +60            |                 |                   |                   |                   |                   |                               |                   |                   |                   |                 |                 |                 |                 |                   |                   | -25 to +50                       |                |              |  |           |
| Humidity (at 30°C) %                                      | 95                    |                 |                   |                   |                   |                   |                               |                   |                   |                   |                 |                 |                 |                 |                   |                   |                                  |                |              |  |           |
| Wind velocity (Operational & Survival), Km/h              | 164 / 250             |                 |                   |                   |                   |                   |                               |                   |                   |                   |                 |                 |                 |                 |                   |                   | 110 / 200                        |                |              |  |           |
| Overall dimensions, (H / W / D), mm (pole mount excluded) | 314 / 145 / 190       | 338 / 190 / 237 | 240 / 426 / 113   |                   |                   |                   | 250 / 265 / 455               |                   |                   |                   | 240 / 426 / 113 |                 | 240 / 435 / 175 |                 | 340 / 212 / 212   |                   |                                  |                |              |  |           |



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