

Dual Band FW-300i LAA



Specifications



Model

FW300i-B48-46-HP-NA

| RADIO SPECIFICATION | FW300i-B48-46-HP-NA | | |
|--|--|---|--|
| Frequency Band | 3.55-3.70 GHz (LTE Band 48 - CBRS) 5.15-5.925 GHz (LTE Band 46) | | |
| Transmit Power | B48: | | |
| | <table border="1"> <tr> <td>10 MHz · 30 dBm/antenna port (1CC) · 30 dBm/antenna port (2CC)</td> <td>20 MHz · 33 dBm/antenna port (1CC) · 30 dBm/antenna port (2CC)</td> </tr> </table> | 10 MHz · 30 dBm/antenna port (1CC) · 30 dBm/antenna port (2CC) | 20 MHz · 33 dBm/antenna port (1CC) · 30 dBm/antenna port (2CC) |
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| | B46: | | |
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| EIRP (per carrier) | B48: | | |
| | <table border="1"> <tr> <td>10 MHz · 47 dBm EIRP/antenna port (1CC) · 47 dBm EIRP/antenna port (2CC)</td> <td>20 MHz · 50 dBm EIRP/antenna port (1CC) · 47 dBm EIRP/antenna port (2CC)</td> </tr> </table> | 10 MHz · 47 dBm EIRP/antenna port (1CC) · 47 dBm EIRP/antenna port (2CC) | 20 MHz · 50 dBm EIRP/antenna port (1CC) · 47 dBm EIRP/antenna port (2CC) |
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| | B46 (UNII-1 and UNII-3 certified): | | |
| <table border="1"> <tr> <td>10 MHz 33 dBm EIRP/sector (aggregate power per MIMO)</td> <td>20 MHz 36 dBm EIRP/sector (aggregate power per MIMO)</td> </tr> </table> | 10 MHz 33 dBm EIRP/sector (aggregate power per MIMO) | 20 MHz 36 dBm EIRP/sector (aggregate power per MIMO) | |
| 10 MHz 33 dBm EIRP/sector (aggregate power per MIMO) | 20 MHz 36 dBm EIRP/sector (aggregate power per MIMO) | | |
| Channel Bandwidth | 3 x 10 MHz or 3 x 20 MHz | | |
| MIMO | 2TX x 2RX (several possible MIMO configurations) | | |
| LTE Compliance | 3GPP Release 10 (SW upgrade to Release 13) | | |

| PERFORMANCE & ATTRIBUTES | FW300i-B48-46-HP-NA |
|--------------------------------------|--|
| Connected/Active User Equipment (UE) | Up to 96 active users per sector |
| Carrier Aggregation | Supports contiguous and non-contiguous 1CC, 2CC, 3CC Covers full CBRS band (150 MHz) |
| Throughput DL TDD Config 2-7 | 110 Mbps per 1CC (140 Mbps*) 330 Mbps per base unit (420 Mbps*) |
| Throughput UL TDD Config 2-7 | 11 Mbps per 1CC |

| | |
|--|---|
| | 35 Mbps per base unit (3 x 1 CC) |
| Operating Mode | TD-LTE |
| Power Consumption | 180 W maximum |
| Power | 48 VDC |
| Connectivity | Default: 1 x Copper 1000BaseT; Optional: 1 x SFP |
| Synchronization | Integral GPS antenna (GPS, GLONASS, BeiDou), Optional: External GPS, 1588v2 |
| Citizens Broadband Radio Service (CBRS) | CBSD Category B Certified |
| Embedded Evolved Packet Core (EPC) | Software Option |

| OPERATIONS, ADMINISTRATION AND MAINTENANCE (OAM) | | FW300i-B48-46-HP-NA |
|--|-------------------------------|---------------------|
| Configuration | WebUI, CLI and EMS | |
| EMS Integration | RESTCONF | |
| OAM Protocols | RESTCONF, HTTPS, SSH, SNMPv2c | |

| ANTENNA SPECIFICATIONS BANDS 42/43, 48 | | FW300i-B48-46-HP-NA |
|--|---------------------|---------------------|
| Gain | 17 dBi | |
| Azimuth Coverage (-5 dB) | 180 degrees | |
| Azimuth Beamwidth (-3 dB) | 45 degrees | |
| Azimuth Beamwidth (-5 dB) | 60 degrees | |
| Elevation Beamwidth (-3 dB) | 10 degrees | |
| Electrical Downtilt | 0 degree | |
| Azimuth Sidelobe | < -25 dB (Typ.) | |
| Front-to-Back Ratio @180 Degrees | > 30 dB (Typ.) | |
| Co-Polar Port-to-Port Isolation | 15 dB (Typ.) | |
| Cross-Polarization Port-to-Port Isolation | > 20 dB (Typ.) | |
| Max. Voltage Standing Wave Ratio (VSWR) | 1.5:1 | |
| Polarization | Dual Pol 45 degrees | |
| Lightning Protection | DC Ground | |

| MECHANICAL | | FW300i-B48-46-HP-NA |
|-----------------------------------|---|---------------------|
| Dimensions (L x W x D) | 13.78" x 22.4" x 8.9" (350 x 570 x 227 mm) | |
| Survival Wind Speed | > 124 mph (200 km/hour) | |
| Weight | 26.5 lbs. (12.0 Kg) | |
| Operational Temperature | -40 to 60 degrees Celsius (-40 to 140 degrees Fahrenheit) | |
| Mechanical Uptilt/Downtilt | 0 - 10 degrees | |

