



# LOS-962

## 5GHz Line Of Sight (LOS) System

LOS-962 5GHz is IP Based Digital Microwave that used in PTP Mode. This Product designed for above 60km distance and delivers an extremely high 700Mbps throughput via its unique and powerful RF design that supports up to 256QAM modulation and 30dBm output power.

The LOS-962 5GHz operating system ensures easy and rapid deployment of point-to-point links with stable, fast performance. An intuitive and responsive user interface adjusts the layout based on the size of your screen. Essential tools including Setup Wizard, link test, antenna alignment, spectrum analyzer, and site survey are included to make set-up and troubleshooting more efficient. Automatic mechanisms such as auto-channel and automatic transmit power control optimize the link for maximum performance even in areas with high interference.

## Wireless

|                     |                                                      |     |     |     |     |     |     |     |     |     |
|---------------------|------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Radio Mode          | MIMO 2x2                                             |     |     |     |     |     |     |     |     |     |
| Radio Freq Band     | 4.9 – 6.1 GHz                                        |     |     |     |     |     |     |     |     |     |
| Transmit Power      | 30 dBm                                               |     |     |     |     |     |     |     |     |     |
| Receive Sensitivity | -75 ~ -97                                            |     |     |     |     |     |     |     |     |     |
| Channel Size        | 5, 10, 20, 40, 80 MHz                                |     |     |     |     |     |     |     |     |     |
| Modulation          | OFDM(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)            |     |     |     |     |     |     |     |     |     |
| Data Rate @ 80MHz   | 866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps |     |     |     |     |     |     |     |     |     |
| Error Correction    | BCC, LDPC                                            |     |     |     |     |     |     |     |     |     |
| Duplexing Scheme    | TDD                                                  |     |     |     |     |     |     |     |     |     |
| ATPC                | Involved                                             |     |     |     |     |     |     |     |     |     |
| Modulation, Mbps    | 866                                                  | 780 | 650 | 585 | 520 | 390 | 260 | 195 | 130 | 65  |
| TX Power, dBm       | 24                                                   | 25  | 26  | 27  | 28  | 30  | 30  | 30  | 30  | 30  |
| Receive Sensitivity | -71                                                  | -73 | -77 | -79 | -80 | -84 | -87 | -92 | -94 | -97 |

## Antenna

|      |                                                      |
|------|------------------------------------------------------|
| Type | N-Type , Integrated                                  |
| Gain | Antenna Dependent (Connectorized, Integrated 25 dBi) |

## Software

|                         |                                                                  |
|-------------------------|------------------------------------------------------------------|
| Wireless Operating Mode | Access Point, Station                                            |
| Wireless Techniques     | Smart Auto-Channel, Auto Modulation, ATPC                        |
| Wireless Security       | WPA/WPA2(Personal and Enterprise involved), WACL, User isolation |
| Wireless QoS            | With Hardware acceleration                                       |
| WAN Protocols           | Static IP, DHCP Client, PPPoE Client                             |
| Service Watchdog        | DHCP server, SNMP server, NTP client, Ping                       |
| Management              | HTTP(S) GUI, SSH, SNMP, WNMS, Telnet                             |
| Tools                   | Site Survey, Link Test, Antenna Alignment                        |

## Physical

|            |                                        |
|------------|----------------------------------------|
| Dimensions | Length 379mm, Width 387mm, Height 51mm |
| Weight     | 2.9Kg Connectorized , 3.9Kg Integrated |
| Mounting   | Pole Mounting, 124mm                   |

## Power

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Power Supply      | 100 ~ 240 VAC / 42 ~ 57 VDC POE 10/100/1000 Base-T, RJ45 Input |
|                   | Second Interface 10/100/1000 Base-T, RJ45 Output               |
| Power Consumption | 8.6 W (POE)                                                    |
| POE Standard      | 802.3af/at Inserter                                            |

## Environmental

|             |               |
|-------------|---------------|
| Temperature | -20°C ~ +50°C |
| Humidity    | 0 ~ 90 %      |