

## Xm/5X.500.2x500/2x28

4.9 - 6.0 GHz

<b>Description</b>	InfiLINK XG high-capacity Integrated 28 dBi Dual-polarization Antenna Point-to-Point backhaul
<b>Performance</b>	Up to 480 Mbps
<b>Distances</b>	60 km
<b>Radio</b>	<ul style="list-style-type: none"> <li>• Radio technology: MIMO 2x2 (Cyclic single carrier)</li> <li>• Modulation types: from QPSK to QAM256, as well as QAM1024</li> <li>• Transmit power: up to 27 dBm (average, per Tx chain) @ QPSK to QAM256. Up to 24 dBm @ QAM1024</li> <li>• Receiver sensitivity: -94 dBm @ 10 MHz, QPSK</li> <li>• Frequency bands: 4.9-6.0 GHz</li> <li>• Channel bandwidth: 10, 20, 40 MHz</li> </ul>
<b>Wired Interfaces</b>	<ul style="list-style-type: none"> <li>• 2x 10/100/1000 Base-T copper ports, RJ-45</li> <li>• SFP port</li> </ul>
<b>Power Consumption</b>	Consumption: <ul style="list-style-type: none"> <li>• up to 30 Watts</li> </ul> Power options: <ul style="list-style-type: none"> <li>• 90-240 VAC~ @ 50/60 Hz</li> <li>• 43..56 VDC</li> </ul>

### Form Factor and Dimensions



305 x 305 x 66 mm, 2.2 kg

<b>Part Number</b>	Xm/5X.500.2x500/2x28
<b>Options</b>	

# Features

## RADIO

- **Voice/RTP Aware Superpackaging**
  - to minimize jitter and latency for multimedia applications
- **DFS**
  - intelligent search for a cleanest channel and interference avoidance
  - radar detection (depending on regulatory domain)
  - continuous background spectrum monitoring (for Instant DFS enabled units only)
  - seamless channel change in case of congestion or radar detection (for Instant DFS enabled units only)
- **Automatic Bitrate Control**
  - to ensure a 100% stable link irrelevant of changes in external conditions
- **Automatic Transmit Power Control**
  - to track and keep optimal input signal level to maximize performance for each link and reduce overall interference within a given transmit power and EIRP limitations
- **Automatic Distance Learning**
  - to optimize performance for any link distances from dozens of meters to 100 km and above
- **Channel Time Adjustment**
  - to improve performance on heavily loaded links
- **Spectrum Analyzer mode**
  - interference detection
  - non-invasive spectrum analysis (for Instant DFS enabled units only)
- **Channel testing tools**
  - channel performance measurement
  - advanced diagnostics

## MAC

- **Dynamic adaptive Polling**
  - Centralized marker grant mode
  - Dynamically takes into account channel activity
  - Permanent channel testing
- **Pseudo-radio Interface**
  - unique InfiNet Wireless feature to join InfiNet Wireless networks via 3rd party equipment (Wired Ethernet segments, IP clouds)
- **Automatic over-the-air firmware upgrade**

## MANAGEMENT FEATURES

- **Web-interface**
  - basic settings
  - channel diagnostics: spectrum analysis, antenna alignment, channel throughput measurement
  - unit and RF links monitoring
  - maintenance: firmware upgrade, license and configuration import/export
  - tech support diagnostic reports generation
  - command-line access
- **Command-line interface for in-depth configuration and diagnostics accessible via:**
  - secure shell (SSH)
  - telnet
  - serial port
  - remote shell
- **SNMPv1 / SNMPv3 support** (MIB II, private MIB)
- **Configurable SNMP Traps**

## STANDARD COMPLIANCE

- **Radio**
  - EN 301 893 v.1.5.1
  - EN 302 502 v.1.2.1
  - FCC part 15.247
- **EMC**
  - EN 301 489-1
  - EN 301 489-17
  - FCC Part 15 Class B
- **Safety**
  - EN 60 950-1:2006
- **RoHS**
  - Directive 2002/95/EC

## NETWORKING

- **Ethernet-over-IP tunneling**
- **ARP protocol support**
- **MAC/IP filtering**
- **Full-fledged 2nd layer switch:**
  - Transparent transport for any type of Ethernet traffic including MPLS, stacked VLANs, etc.
  - Multiple switching groups
  - Full VLAN support including Q-in-Q (IEEE 802.1q and 802.1ad)
  - STP/rSTP support
  - IGMP Snooping with Querrier mode
  - Trunk groups support
- **RIPv2 / OSPFv2 /static routing**
- **Tunneling** (Ethernet-over-IP, IP-over-IP)
- **L2/L3 Firewall**
- **NAT**(multipool, H.323-aware)
- **DHCP client/server/relay**

## SECURITY FEATURES

- **Storm / flood protection**
- **Password protection**
- **Protocol messages encryption**
- **Secure command-line access via SSH protocol**

## QUALITY-OF-SERVICE

With many QoS permutations, QoS implementation works transparently in the network based on IEEE802.1p standard as well as ToS/DiffServ, guaranteeing optimal performance under any load conditions and lowest jitter/delays for priority traffic.

### Quality-of-Service features:

- **16 priority queues**
- **IEEE 802.1p support**
- **IP TOS / DiffServ support**
- **Full voice support**
- **Traffic limiting** (absolute, relative, mixed)
- **Traffic redirection**

## ENVIRONMENTAL

- **Outdoor Units:**
  - 40..+60C, 100% humidity, condensing
- **Indoor Unit:**
  - 0..+40C, 95% humidity, non-condensing

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