proxim wireless

# **GigaLink® Series** Carrier and Enterprise-Class Alternative to Fiber – Up to Gigabit Speeds



GigaLink 6221e/6232e MMW Transceiver



GigaLink 6421e/6432e/6451e/6651e MMW Transceiver



GigaLink 7451e MMW Transceiver

## **High-Capacity Wireless Backhaul**

Proxim Wireless offers extremely reliable, secure and easily-deployed solutions for interconnecting corporate and telecommunications networks. This portfolio includes:

- **GigaLink**<sup>®</sup> Alternative to fiber, up to a Gigabit speed
- Lynx.GX<sup>®</sup> Cellular voice and data backhaul, up to DS3 interface
- Tsunami.GX<sup>®</sup> Carrier-class IP Ethernet bridge for voice and data backhaul for service providers and enterprise applications
- TeraBridge<sup>™</sup> Ethernet backhaul or traditional telecommunications converged voice and data networks
- QuickBridge® Complete "hop-in-a-box" Ethernet bridge for campus and small business networks

**Proxim Wireless** is a global provider in scalable broadband wireless networking. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, point-to-multipoint and point-to-point products are available through our extensive global channel network.

### High-Capacity Point-to-Point Link for Secure Connectivity

Proxim's GigaLink Series includes an array of full-duplex point-to-point wireless bridges that offer affordable, highly reliable, secure, outdoor links in the 57-64 GHz unlicensed frequency band and the 71-76 GHz licensed E-band. Available in Fast Ethernet, OC-3/STM-1 and Gigabit Ethernet interfaces, GigaLink systems offer the performance of fiber at a fraction of the costs. As the first FCC Part 15.255-certified millimeter wavelength system operating in the 57.05 to 64 GHz band, these field-proven millimeter wave transceivers represent one of the most reliable wireless solutions available today.

#### **Gigalink System Features:**

#### High Reliability

- Third-generation, mature product line
- Extremely high link availability up to 99.999% with direct fiber interface
- Lower latency than physical fiber at equivalent distances

#### **Extensive Security**

- Narrow beam width increases security and enables virtually interference-free operation
- Highly cost-effective Patented Direct Digital Modulation transparent to any encryption technique
- Physical layer interface transports only binary data bits

### Reduces Total Cost of Ownership (TCO) with Ease of Installation and Management

- Compact size and weight designed for outdoor deployments
- Direct network interface at terminal eliminates the need for an IDU
- Custom network planning and link deployment tools
- GUI-based integrated management and SNMP capabilities

#### License-Free Bands for Short and Medium Range Links

Operating in the 57-64 GHz frequency band, the GigaLink license-free models are available in short and medium ranges with up to Gigabit speeds. With no requirement for license purchase, the GigaLink 60 GHz links enable quick and easy deployment – delivering fiber capacity at a fraction of the cost and time. Due to the unique oxygen absorption properties of the 60 GHz spectrum, many same frequency systems can be co-located in the same area without interference. GigaLink 60 GHz License-free models feature:

- Fast Ethernet (125 Mbps), OC-3/STM (155 Mbps) and Gigabit Ethernet (1.25 Gbps) full-duplex bandwidths
- Short and medium range support up to 1 km
- Integrated 29 dBi Patch Antenna or Integrated 40 dBi Parabolic Antenna

## Licensed E-Band for Extended Range

Operating in the 71-76 GHz E-band, the GigaLink 7451e provides a solution for longer link requirements beyond the reliable range of the license-free 60 GHz models. Delivering the capacity and simplicity of fiber, Model 7451e provides high capacity full-duplex, true wire speed connectivity up to 1.25 Gbps at ranges in excess of 8 km<sup>1</sup>. GigaLink 74 GHz Licensed models feature:

- Gigabit Ethernet (1.25 Gbps) full-duplex bandwidths
- Long range support in excess of 8km
- Integrated 44 dBi Parabolic Antenna

<sup>&</sup>lt;sup>1</sup> Under ideal operating conditions, Maximum Range at 99.9% availability, Crane region D2. See Maximum Link Range chart at www.proxim.com/products/gigalink

| PRODUCT MODEL                      | MODEL 6221E  | MODEL 6421E  | MODEL 6232E  |
|------------------------------------|--|--|--|
| DESCRIPTION                        | GigaLink 6221e 60 GHz, 125 Mbps, 100BASE-FX,<br>Integral Patch Array Antenna for short ranges<br>(Part# 605-906221-101)  | GigaLink 6421e 60 GHz, 125 Mbps, 100BASE-FX,<br>Integral 13 in. Parabolic Antenna for medium ranges<br>(Part# 605-906421-101)  | GigaLink 6232e 60 GHz, 155 Mbps, OC3-STM1,<br>Integral Patch Array Antenna for short ranges<br>(Part# 605-906232-101)  |
| FREQUENCY BAND                     | 57.05 to 64 GHz  | 57.05 to 64 GHz  | 57.05 to 64 GHz  |
| FULL-DUPLEX<br>BANDWIDTH           | 125 Mbps   | 125 Mbps   | 155 Mbps   |
| RANGE <sup>1</sup>                 | 20 to 430 m (65 to 1,410 ft)   | 180 to 1,230 m (590 to 4,035 ft)   | 20 to 415 m (65 to 1,361 ft)   |
| RF INJECTION POWER<br>INTO ANTENNA | 10 mW  | 8 mW   | 10 mW  |
| ANTENNA GAIN                       | 29 dBi Integral Patch Array  | 40 dBi Integral 13 in Parabolic  | 29 dBi Integral 13 in Patch Antenna Array  |
| 3 DB BEAM WIDTH                    | 3.5 degrees  | 1.0 degree   | 3.5 degrees  |
| MOUNTING                           | L-Bracket and Gimbal for 2.5 in and 4 in diameter mast   | L-Bracket and Gimbal for 2.5 in and 4 in diameter mast   | L-Bracket and Gimbal for 2.5 in and 4 in diameter mast   |
| STANDARD MOUNT                     | OD Pipe or Wall Mount  | OD Pipe or Wall Mount  | OD Pipe or Wall Mount  |
| INTERFACES                         |  |  |  |
| DATA                               | MMF 1310 nm version, compatible with 100 Base-FX, FC Connectors  | MMF 1310 nm version, compatible with 100 Base-FX, FC Connectors  | MMF 1310 nm, compatible with SDH-1,<br>STM-1 and OC-3, FC Connectors   |
| MANAGEMENT                         | 10 Base-T, RJ-45 Modular (with adapter cable)  | 10 Base-T, RJ-45 Modular (with adapter cable)  | 10 Base-T, RJ-45 Modular (with adapter cable)  |
| INSTALLATION                       | 10 Base-T, RJ-45 Modular (with adapter cable)  | 10 Base-T, RJ-45 Modular (with adapter cable)  | 10 Base-T, RJ-45 Modular (with adapter cable)  |
| POWER                              | NEMA 5-15P   | NEMA 5-15P   | NEMA 5-15P   |
| ENVIRONMENTAL                      |  |  |  |
| TEMPERATURE                        |  |  |  |
| OPERATING                          | -20° to 60°C   | -20° to 60°C   | -20° to 60°C   |
| STORAGE                            | -30° to 85°C   | -30° to 85°C   | -30° to 85°C   |
| RELATIVE HUMIDITY                  | 95% (non-condensing)   | 95% (non-condensing)   | 95% (non-condensing)   |
| ELECTRICAL                         |  |  |  |
| INPUT VOLTAGE                      | 94 to 264 VAC, 50/60 Hz  | 94 to 264 VAC, 50/60 Hz  | 94 to 264 VAC, 50/60 Hz  |
| MAX INPUT CURRENT                  | 0.85 Amp   | 0.85 Amp   | 0.85 Amp   |
| POWER CONSUMPTION                  | 85 Watts   | 85 Watts   | 85 Watts   |
| MANAGEMENT                         |  |  |  |
| LOCAL                              | Lap-top based software provided  | Lap-top based software provided  | Lap-top based software provided  |
| REMOTE                             | SNMP v1  | SNMP v1  | SNMP v1  |
| PHYSICAL                           |  |  |  |
| DIMENSIONS                         |  |  |  |
| PACKAGED                           | 2 Cartons (each): 17 x 14 x 21 in (431 x 356 x 533 mm)   | 2 Cartons (each): 18 x 20 x 21 in (457 x 508 x 533 mm)   | 2 Cartons (each): 17 x 14 x 21 in (431 x 356 x 533 mm)   |
| WEIGHTS                            |  |  |  |
| PACKAGED<br>REGULATORY             | 2 Cartons (each): 28 lbs (12.7 kg)   | 2 Cartons (each): 39 lbs (17.7 kg)   | 2 Cartons (each): 28 lbs (12.7 kg)   |
| ELECTROMAGNETIC                    | FCC - Part 15.255 (Cert No. 02700000-30-30)<br>IC - 4505A-00003030   | FCC - Part 15.255 (Cert No. 02700000-30-30)<br>IC - 4505A-00003030   | -<br>FCC - Part 15.255 (Cert No. 02700000-30-30)<br>IC - 4505A-00003030  |
| WARRANTY                           | 1 Year on parts and labor  | 1 Year on parts and labor  | 1 Year on parts and labor  |
| PACKAGE CONTENTS                   | <ul> <li>GigaLink 6221e radio with integral 13 in patch array antenna (Qty 2)</li> <li>AC/DC power module with mounting kit (Qty 2)</li> <li>10BASE-T adapter cable and spare connector kit (Qty 2)</li> <li>Fiber loop-back jumper cable (Qty 2)</li> <li>FC/SC adapter cable and SC-SC coupler (Qty 2)</li> <li>Mounting L-Bracket for wall/pole mount (Qty 2)</li> <li>Pan and Tilt adjustable Gimbal (Qty 2)</li> <li>Gigamon software on CD-Rom (Qty 1)</li> <li>Field and Installation manual (Qty 1)</li> </ul> | <ul> <li>GigaLink 6421e radio with integral 13 in parabolic antenna (Qty 2)</li> <li>AC/DC power module with mounting kit (Qty 2)</li> <li>10BASE-T adapter cable and spare connector kit (Qty 2)</li> <li>Fiber loop-back jumper cable (Qty 2)</li> <li>FC/SC adapter cable and SC-SC coupler (Qty 2)</li> <li>Mounting L-Bracket for wall/pole mount (Qty 2)</li> <li>Pan and Tilt adjustable Gimbal (Qty 2)</li> <li>Gigamon software on CD-Rom (Qty 1)</li> <li>Field and Installation manual (Qty 1)</li> </ul> | <ul> <li>GigaLink 6232e radio with integral 13 in patch array antenna (Qty 2)</li> <li>AC/DC power module with mounting kit (Qty 2)</li> <li>10BASE-T adapter cable and spare connector kit (Qty 2)</li> <li>Fiber loop-back jumper cable (Qty 2)</li> <li>FC/SC adapter cable and SC-SC coupler (Qty 2)</li> <li>Mounting L-Bracket for wall/pole mount (Qty 2)</li> <li>Pan and Tilt adjustable Gimbal (Qty 2)</li> <li>Gigamon software on CD-Rom (Qty 1)</li> <li>Field and Installation manual (Qty 1)</li> </ul> |

<sup>1</sup>Under ideal operating conditions; Maximum Range at 99.9% availability, Crane Rain Region D2. See Maximum Link Range chart at www.proxim.com/products/gigalink

# **GigaLink Series Technical Specifications** License free 60 GHz

| PRODUCT MODEL            | MODEL 6432E  | MODEL 6451E-AC / MODEL 6451E-DC   | MODEL 6651E-AC / MODEL 6651E-DC  |
|--------------------------|--|---|--|
| DESCRIPTION              | GigaLink 6432e 60 GHz, 155 Mbps, OC3-STM1,<br>Integral 13 in. Parabolic Antenna for medium ranges<br>(Part# 605-906432-101)  | GigaLink 6451e-AC 60 GHz link, 1.25 Gbps, 1000SX,<br>Integral 13 in Parabolic Antenna for short ranges,<br>AC Power (Part # 605-906451-101)<br>GigaLink 6451e-DC 60 GHz link, 1.25 Gbps, 1000SX,<br>Integral 13 in Parabolic Antenna for short ranges,<br>DC Power (Part# 605-906451-201)   | GigaLink 6651e-AC 60 GHz, Link, 1.25 Gbps,<br>1000SX, Integral 13 in Parabolic Antenna for<br>medium ranges, AC Power (Part # 605-906651-101)<br>GigaLink 6651e-DC 60 GHz, Link, 1.25 Gbps,<br>1000SX, Integral 13 in Parabolic Antenna for<br>medium ranges, DC Power (Part# 605-906651-201)  |
| RADIO/SYSTEM SPECS       |  | i   |  |
| FREQUENCY BAND           | 57.05 to 64 GHz  | 57.05 to 64 GHz   | 57.05 to 64 GHz  |
| FULL-DUPLEX<br>BANDWIDTH | 155 Mbps   | 1.25 Gbps   | 1.25 Gbps  |
| RANGE <sup>1</sup>       | 175 to 1,210 m (574 to 3,970 ft)   | 20 to 440 m (66 to 1,430 ft)  | 300 to 1,142 m (975 to 3,711 ft)   |
| RF INJECTION POWER       | 8 mW   | 8 mW  | 10 mW  |
| ANTENNA GAIN             | 40 dBi Integral 13 in Parabolic  | 40 dBi Integral 13 in Parabolic   | 41 dBi Integral 13 in Parabolic  |
| 3 DB BEAM WIDTH          | 1.0 degree   | 1.0 degree  | 0.9 degree   |
| MOUNTING                 | L-Bracket and Gimbal for 2.5 in and 4 in diameter mast   | Adjustable Precision Azimuth and Elevation Mount  | Adjustable Precison Azimuth and Elevation Mount  |
| STANDARD MOUNT           | OD Pipe or Wall Mount  | 2.75 to 4.5 in OD Pipe Mount only   | 2.75 to 4.5 in OD Pipe Mount only  |
| INTERFACES               |  |   |  |
| DATA                     | MMF 1310 nm, compatible with SDH-1, STM-1 and OC-3, FC Connectors  | MMF 850 nm, compatible with 1000 Base-SX,<br>FC Connectors  | MMF 850 nm, compatible with 1000 Base-SX,<br>FC Connectors   |
| MANAGEMENT               | 10 Base-T, RJ-45 Modular (with adapter cable)  | 100 Base-FX, MMF 1310 nm, FC connector  | 100 Base-FX, MMF 1310 nm, FC connector   |
|                          | 10 Base-T, RJ-45 Modular (with adapter cable)  | 100 Base-T, RJ-45 Modular (with adapter cable)  | 100 Base-T, RJ-45 Modular (with adapter cable)   |
| POWER                    | NEMA 5-15P   | MIL-C-5015-type connector (accepts 12 to 16-<br>AWG three conductor power cable)  | MIL-C-5015-type connector (accepts 12 to 16-<br>AWG three conductor power cable)   |
| ENVIRONMENTAL            |  |   |  |
|                          |  |   |  |
| OPERATING                | -20° to 60°C   | -30° to 60°C  | -30° to 60°C   |
| STORAGE                  | -30° to 85°C   | -40° to 85°C  | -40° to 85°C   |
|                          | 95% (non-condensing)   | 95% (non-condensing)  | 95% (non-condensing)   |
| ELECTRICAL               |  |   |  |
| INPUT VOLTAGE            | 94 to 264 VAC, 50/60 Hz  | 6451e-AC: 100 to 230 VAC, 50/60 GHz;<br>6451e-DC: -48 VDC nominal (-40 to -57 VDC) <sup>2</sup>   | 6651e-AC: 94 to 264 VAC, 50/60 Hz;<br>6651e-DC: -48 VDC nominal (-40 to -57 VDC) <sup>2</sup>  |
| MAX INPUT CURRENT        | 0.85 Amp   | 6451e-AC: 0.9 to 0.5 Amps; 6451e-DC: 1.2 Amps   | 6651e-AC: 0.9 to 0.5 Amps; 6651e-DC: 1.2 Amps  |
| POWER CONSUMPTION        | 85 Watts   | 90 Watts  | 90 Watts   |
| MANAGEMENT               |  |   |  |
| LOCAL                    | Lap-top based software provided  | Lap-top based software provided   | Lap-top based software provided  |
| REMOTE                   | SNMP v1  | SNMP v1   | SNMP v1  |
| PHYSICAL                 |  |   |  |
|                          |  |   |  |
| PACKAGED                 | 2 Cartons (each): 18 x 20 x 21 in (457 x 508 x 533 mm)   | 2 Cartons (each): 18 x 20 x 21 in (457 x 508 x 533 mm)  | 2 Cartons (each): 18 x 20 x 21 in (457 x 508 x 533 mm)   |
| WEIGHTS<br>PACKAGED      | 2 Cartons (each): 39 lbs (17.7 kg)   | 6451e-AC - 2 Cartons (each): 45 lbs (20.4 kg)   | 6651e-AC - 2 Cartons (each): 45 lbs (20.4 kg)<br>6651e-DC - 2 Cartons (each): 38 lbs (17.2 kg)   |
| REGULATORY               |  | 6451e-DC - 2 Cartons (each): 38 lbs (17.2 kg)   | 00510 DC 2 Cartons (cach), 50 lbs (17.2 kg/  |
| ELECTROMAGNETIC          | <br>FCC - Part 15.255 (Cert No. 02700000-30-30)<br>IC - 4505A-00003030   | FCC - Part 15.255 (FCCID No. 02700001-30-30)<br>IC - 4505A-00013030   | FCC - Part 15.255 (FCCID No. 02700001-30-30)<br>IC - 4505A-00013030  |
| WARRANTY                 | 1 Year on parts and labor  | 1 Year on parts and labor   | 1 Year on parts and labor  |
| PACKAGE CONTENTS         | <ul> <li>GigaLink 6432e radio with integral 13 in parabolic antenna (Qty 2)</li> <li>AC/DC power module with mounting kit (Qty 2)</li> <li>10BASE-T adapter cable and spare connector kit (Qty 2)</li> <li>Fiber loop-back jumper cable (Qty 2)</li> <li>FC/SC adapter cable and SC-SC coupler (Qty 2)</li> <li>Mounting L-Bracket for wall/pole mount (Qty 2)</li> <li>Pan and Tilt adjustable Gimbal (Qty 2)</li> <li>Gigamon software on CD-Rom (Qty 1)</li> <li>Field and Installation manual (Qty 1)</li> </ul> | <ul> <li>GigaLink 6451e-AC or 6451e-DC radio with integral 13 in parabolic antenna (Qty 2)</li> <li>DC power connector assembly (Qty 2)</li> <li>100 BASE-T adapter cable (Qty 2)</li> <li>Fiber loop-back jumper cable (Qty 2)</li> <li>FC/SC adapter cable and SC-SC coupler (Qty 2)</li> <li>Precision adjustable azimuth and elevation mount (Qty 2)</li> <li>Gigamon software on CD-Rom (Qty 1)</li> <li>Field and Installation manual (Qty 1)</li> <li>Universal AC Power module with DC cable assembly included with 6451e-AC (Qty 2)<sup>2</sup></li> </ul> | <ul> <li>GigaLink 6651e-AC or 6651e-DC radio with integral 13 in parabolic antenna (Qty 2)</li> <li>DC power connector assembly (Qty 2)</li> <li>10BASE-T adapter cable (Qty 2)</li> <li>Fiber loop-back jumper cable (Qty 2)</li> <li>FC/SC adapter cable and SC-SC coupler (Qty 2)</li> <li>Mount arm and associated hardware (Qty 2)</li> <li>Pole-Mounted gimbal (Qty 2)</li> <li>Gigamon software on CD-Rom (Qty 1)</li> <li>Field and Installation manual (Qty 1)</li> <li>Universal AC Power module with DC cable assembly - included with Model 6651e-AC only (Qty 2)<sup>2</sup></li> </ul> |

<sup>1</sup>Under ideal operating conditions; Maximum Range at 99.9% availability, Crane Rain Region D2. See Maximum Link Range chart at www.proxim.com/products/gigalink <sup>2</sup>DC versions do not include power module. Require -48 VDC power source.



| PRODUCT MODEL         | MODEL 7451E-AC / MODEL 7451E-DC  |   |
|-----------------------|--|---|
|                       |  | APPLICATIONS  |
| DESCRIPTION           | GigaLink 7451e-AC 71-76 GHz, Link, 1.25 Gbps, 1000SX, Integral 13 in Parabolic Antenna for long ranges,<br>AC Power, (Part # 605-907451-101)<br>GigaLink 751e-DC 71-76 GHz, Link, 1.25 Gbps, 1000SX, Integral 13 in Parabolic Antenna for long ranges,<br>DC Power, (Part# 605-907451-201)   | • Wireless Bridge for Fast Ethernet and Gigabit Ethernet interfaces |
| RADIO/SYSTEM SPECS    |  | Enterprise LAN and PBX extension                                    |
| FREQUENCY BAND        | 71-76 GHz "Light Licensed"E-band   | WAN extension redundancy  |
| FULL-DUPLEX BANDWIDTH | 1.25 Gbps  | ISP remote POP  |
| RANGE <sup>1</sup>    | 600 m to 8,200 m (1,950 to 26,650 ft)  |   |
| RF INJECTION POWER    | 10 mW  | ISP direct customer connections     using point-to-point            |
| ANTENNA GAIN          | 44 dBi Integral 13 in Parabolic  | Extension of existing fiber network                                 |
| 3 DB BEAM WIDTH       | 0.8 degree   |   |
| MOUNTING              | Adjustable Precison Azimuth and Elevation Mount  |   |
| STANDARD MOUNT        | 2.75 in to 4.5 in OD Pipe Mount only   |   |
| INTERFACES            |  |   |
| DATA                  | MMF 850 nm, compatible with 1000 Base-SX, FC connectors  |   |
| MANAGEMENT            | 100 Base-FX, MMF 1310 nm, FC connectors  |   |
| INSTALLATION          | 100 Base-T, RJ-45 Modular (with adapter cable)   |   |
| POWER                 | MIL-C-5015-type connector (accepts 12 to 16-AWG three conductor power cable)   | _   |
| ENVIRONMENTAL         |  | _   |
| TEMPERATURE           |  | _   |
| OPERATING<br>STORAGE  | -30° to 60°C<br>-40° to 85°C   |   |
| RELATIVE HUMIDITY     | 95% (non-condensing)   |   |
| ELECTRICAL            |  |   |
| INPUT VOLTAGE         | 7451e-AC: 94 to 264 VAC, 50/60 Hz; 7451e-DC: -48 VDC nominal (-40 to -57 VDC) <sup>2</sup>   | _   |
| MAX INPUT CURRENT     | 7451e-AC: 0.9 to 0.5 Amps; 7451e-DC: 1.2 Amps  |   |
| POWER CONSUMPTION     | 90 Watts   | _   |
| MANAGEMENT            |  |   |
| LOCAL                 | Lap-top based software provided  |   |
| REMOTE                | SNMP v1  |   |
| PHYSICAL              |  |   |
| DIMENSIONS            |  |   |
| PACKAGED              | 2 Cartons (each): 18 x 20 x 21 in (457 x 508 x 533 mm)   | _   |
| WEIGHTS               |  | _   |
| PACKAGED              | 7451e-AC - 2 Cartons (each): 45 lbs (20.4 kg); 7451e-DC - 2 cartons (each): 38 lbs (17.2 kg)   | _   |
| REGULATORY            |  | _   |
| ELECTROMAGNETIC       | FCC - Part 101, 47CFR  |   |
| WARRANTY              | 1 Year on parts and labor  |   |
| PACKAGE CONTENTS      | <ul> <li>GigaLink 7451e-AC or 7451e-DC radio with integral 13 in parabolic antenna (Qty 2)</li> <li>DC power connector assembly (Qty 2)</li> <li>10BASE-T adapter cable (Qty 2)</li> <li>Fiber loop-back jumper cable (Qty 2)</li> <li>FC/SC adapter cable and SC-SC coupler (Qty 2)</li> <li>Mount arm and associated hardware (Qty 2)</li> <li>Pole-Mounted gimbal (Qty 2)</li> <li>Gigamon software on CD-Rom (Qty 1)</li> <li>Field and Installation manual (Qty 1)</li> <li>Universal AC Power module with DC cable assembly - included with Model 7451e-AC only (Qty 2)<sup>2</sup></li> </ul> |   |
|                       |  | ]   |

<sup>1</sup>Under ideal operating conditions; Maximum Range at 99.9% availability, Crane Rain Region D2. See Maximum Link Range chart at www.proxim.com/products/gigalink

<sup>2</sup>DC versions do not include power module. Require -48 VDC power source.

For detailed technical specifications, please go to http://www.proxim.com/products/gigalink

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