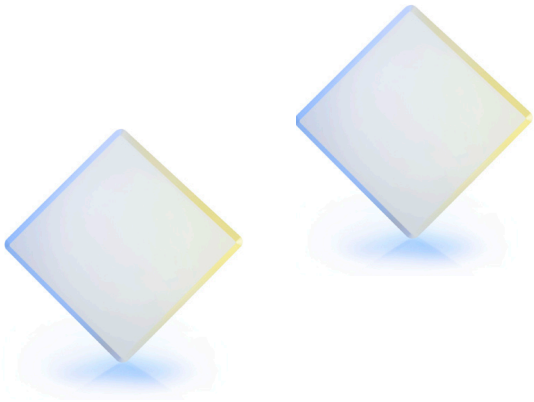
Quick Install Guide

Tsunami QuickBridge.11
Models 2454-R and 5054-R
Version 2.5

Quick Install



Part Number 72301 (CD version)

NOTICES

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IMPORTANT!

Before installing this product, see "Safety and Regulatory Information" on the product CD for important safety and regulatory compliance information.

WARNING

To ensure proper grounding, use the hole at the bottom point on the back of each unit and the provided grounding screws to attach a ground wire of at least 10 AWG stranded to each unit. Use proper wire grounding techniques in accordance with National Electric Codes (NEC). If the grounding screws are too long, add SS star washers as necessary so that the screw will not bottom out and risk cracking the case or breaking the screw head off the ground screw. You also can mount the units on tall, multi-section poles with guy wires. For these types of installations, consult professionals with experience.

INTRODUCTION

The Tsunami QuickBridge.11 is a wireless point-to-point networking solution for any enterprise or small business. Two pre-configured bridges enable users to easily, quickly, and economically install a wireless LAN extension between two locations, eliminating the need for costly leased line or cable alternatives. The QuickBridge.11 kit contains everything you need to establish a point-to-point connection, including one Base Station Unit (BSU), one Subscriber Unit (SU), power injectors, antennas, and Ethernet cables.

The product's principle components are a unit and a power-and-Ethernet injector. The unit has a self-contained antenna enclosed in a weatherproof container, which can be mounted to the side of a building, on a pole, or on a tower structure.

Power and Ethernet connections must be supplied through a UV-protected, CAT 5 cable attached to a Power-over-Ethernet (PoE) injector. The PoE injector should be located either in a weatherproof enclosure located near the unit or inside a building. The unit then can be connected to a switch or hub on your network, or directly to a PC.

KEY FEATURES

Some of the key features of the QuickBridge.11 include:

- The use of a highly optimized protocol for outdoor situations
- Routing and bridging capability
- Asymmetric bandwidth management
- Management through a Web Interface, a Command Line Interface (CLI), or Simple Network Management Protocol (SNMP)
- Software and configuration upgrade through file transfer (TFTP)
- Outdoor placement, close to the antenna, for significantly improved range and ease of installation
- Integrated antenna and antenna alignment signal
- VLAN support

The radio case contains a state-of-the-art wireless unit, a high-gain performance flat-panel antenna, and Power-over-Ethernet (the sole means of power for the unit). For further protection, the unit has internal, built-in surge protection.

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I. ACCESSING THE WEB INTERFACE

1) GATHER REQUIRED TOOLS AND MATERIALS

You should have the following tools available before installing the QuickBridge.11 units:

- Phillips (cross-tip) screwdrivers
- Small and large blade standard screwdrivers
- Wire crimpers (if using connectors that are not pre-made)
- Adjustable 6” wrench
- Weatherproofing material to seal external connectors (such as butyl tape)
- Straight-through UV-protected CAT 5 Ethernet cable to connect to PC, or crossover cable to connect to a hub or a switch.

Note:

The total length of cabling between the PC and the QuickBridge.11 units cannot exceed 100 meters, which includes both the cable from the PC to the power injector and the cable from the power injector to the QuickBridge.11 units. Due to DC power requirements, the maximum cable length between the power injector and the QuickBridge.11 units is 75 meters.

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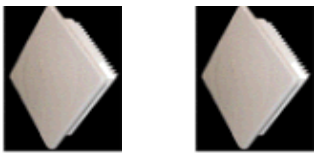
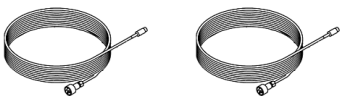
2) UNPACK THE SHIPPING BOX CONTENTS

The product’s shipping boxes should be left intact and sheltered until arrival at the installation site. Carefully unpack the QuickBridge.11 shipment and check for any shipping damage or missing parts. There are two sets of equipment in the box.

Each QuickBridge.11 shipment contains the following.

Two 5054-R or 2454-R units with integrated antennas	
Installation CD (1 ea.)	
Power Injector and Cord (2 ea.)	
50 meter outdoor rated CAT 5 cables (Non UL) with connectors (2 ea.)	

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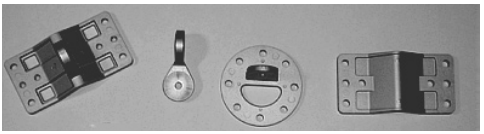
<table>
<tr>
<td>Mounting Kit (2 ea.)</td>
<td>You will receive one of these two mounting kits:
A) Mounting clamp for wall/poll
B) Extension arm
C) Mounting plate to enclosure
D) Mounting clamp for pole mounting

Kit 1:

A B C D

Kit 2:

A B C D</td>
</tr>
<tr>
<td>Mounting Hardware</td>
<td>The following mounting hardware is included with the Mounting Kit:

<table>
<tr><th>Item</th><th>Qty</th><th>Description</th><th></th></tr>
<tr><td>1</td><td>12 ea</td><td>Plain washer #5/16</td><td></td></tr>
<tr><td>2</td><td>4 ea.</td><td>Hex cap screw NC 5/16-18 x 35</td><td></td></tr>
<tr><td>3</td><td>4 ea.</td><td>Nut NC 5/16-18</td><td></td></tr>
<tr><td>4</td><td>8 ea.</td><td>Helical spring lock washer # 1/4</td><td></td></tr>
<tr><td>5</td><td>8 ea.</td><td>Helical spring lock washer #5/16</td><td></td></tr>
<tr><td>6</td><td>4 ea</td><td>Hex cap screw NC 5/16-18 x 80</td><td></td></tr>
<tr><td>7</td><td>8 ea.</td><td>68764, Screw, Machine, Pan, Philips, 1/4”-20, 5/8”L</td><td></td></tr>
</table>
</td>
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</table>

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Note:

Be sure to read the Release Notes file on the product CD as it contains software version and driver information that may not have been available when this document was produced. You can also find the Release Notes at the following location after you have installed the documentation and software: c:\Program Files\Tsunami\QB11

Installation Notes

Before mounting the unit, make a note of the Ethernet and Mac addresses of the SU, the encryption key, and the serial number as printed on the label; these addresses may be needed when configuring the BSU. The serial number is required to obtain support from Proxim. Keep this information in a safe place.

The units are designed to directly mount to a pole or wall. Using the supplied brackets and hardware, you can mount the units to a 1-1/4 inch to 4.5-inch pole (outside diameter). Using just one of the pole mounting brackets, you can mount the unit to a wall or other flat surface.

Note:

Equipment is to be used with and powered by the power injector provided, or by a power injector that meets the following requirements:

- UL-Listed/ITE (NWGQ)
- Limited Power Source Output per UL/IEC 60950
- CE-marked
- Approved for Power-over-Ethernet
- Rated output, 48 Vdc/0.42 A
- Wired according to the 802.3af standard for mid-span devices

3) PRE-ASSEMBLE THE HARDWARE

Proxim recommends that you pre-assemble the mounting hardware on the ground to familiarize yourself with the equipment and check for any possible damaged or missing components before mounting the units. This includes attaching the mounting bracket and loosely attaching the washers, lock washers, and lock nuts to the units. Installers having prior installation experience may choose to skip this step.

1. Align mounting piece (A) to the screw holes on the back of the unit; attach with 4 screws and lock washers (B) as shown (tighten at a TORQUE OF 75 IN-LBS):

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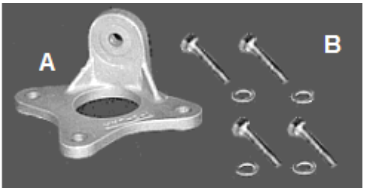
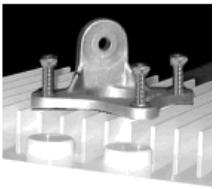
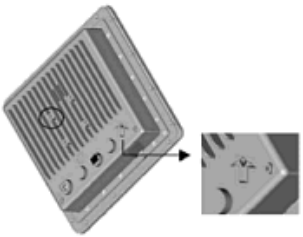
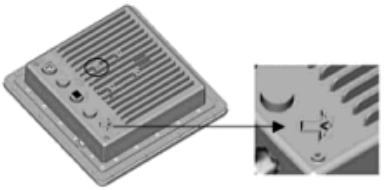


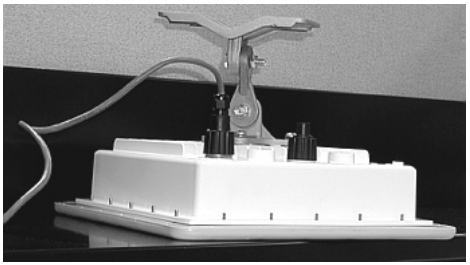



There is an arrow on the back of the unit that indicates the direction to mount for vertical polarization. When not using the bracket connector (C), mount the unit with the upper portion of the bracket in the position circled in the following figure on the left for vertical alignment.

For horizontal alignment, mount the unit as shown in the figure on the right. Due to the 90° angle between the connecting surfaces on the bracket connector (C), the orientation of vertical and horizontal changes when adding this bracket.

The following figure shows brackets mounted for vertical alignment:



2. Attach bracket connector (C) to mounting piece (A) as shown below. [Hex cap screw, plain washer] through hole [plain washer, lock washer, nut], This extension piece gives the unit more possible tilt, letting you adjust for azimuth or elevation over a larger angle.

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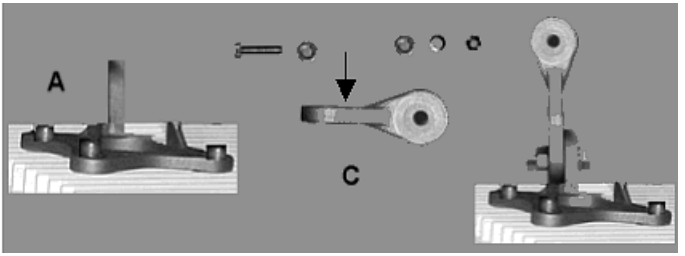
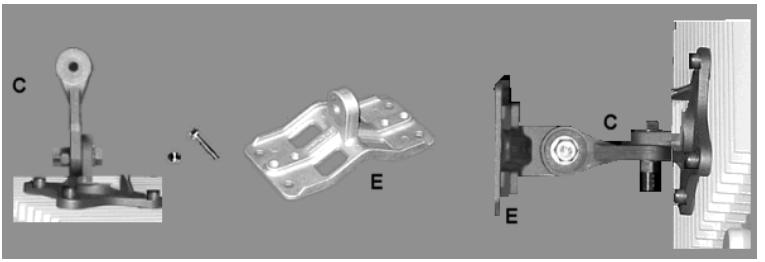


3. Attach bracket connector (C) to bracket (E), as above, with the screw, washers, and nut provided.



4) CONNECT THE CABLES

When you initially install the units, you should configure the units in the same room. A brief overview of the recommended computer/network configuration follows.

- Connect one unit to a switch or hub; connect a PC to the same switch or hub.
- Connect the other unit to another switch or hub and connect another PC to the same switch or hub.
- Make sure the two switches or hubs are not connected on the same network.
- Make the other necessary cable connections, as described in the following text.

An interface cable with a normal RJ45 connector and a weatherproof RJ45 connector is supplied with each QuickBridge.11 unit.

The following steps detail how to connect the cables between the unit, power injector, and your network.

For each unit/PoE adapter set, perform these steps:

1. Position the units approximately 25 feet from each other. Place them on a tabletop or shipping box.

2. Connect the normal RJ45 connector on the supplied outdoor-rated CAT 5 cable to the ”Data & Power Out” port on the PoE injector.

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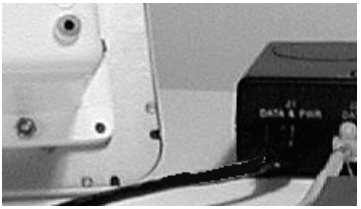
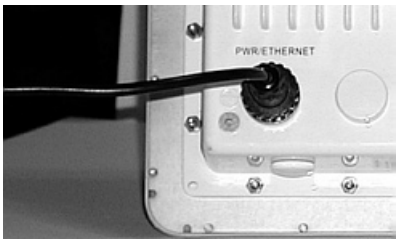


3. Attach the weatherproof outdoor-rated Cat 5 RJ45 connector to the Power and Ethernet port on the back of the unit (see the following figure). Note that the first attachment of this cable is meant to verify operation and configure the unit; the final attachment and weather-proofing are to be done after each unit has been installed in the location at which it needs to operate. Do not tighten the connector nut; do not use the wrench to tighten the connector.



4. To connect the unit through a hub or a switch to a PC, use a straight-through Ethernet cable between the network interface card in the PC and the hub, and between the hub and the RJ45 "Data In" port on the PoE injector.



If you are connecting the PC directly to the unit, you must use a crossover Ethernet cable between the network interface card in the PC and the RJ45 "Data In" port on the PoE injector.

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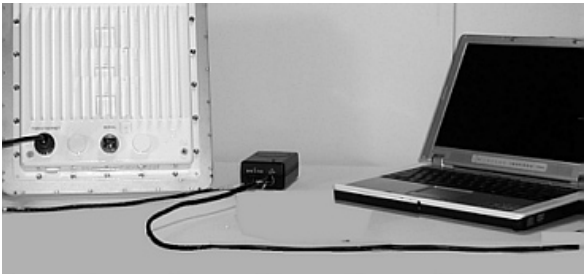

5. Connect the power injector to a grounded AC power source.

5) POWER ON THE UNIT

You can power on the unit by connecting the power injector to the Ethernet cabling and plugging the power injector cord into an AC outlet. There is no ON/OFF switch on the unit. To remove power, unplug the AC cord from the AC outlet or disconnect the RJ45 connector from the "Data & Power Out" port on the PoE injector.

When the unit is powered on, it performs startup diagnostics. When startup is complete, the LEDs show the unit's operational state (see the following table). The LEDs are present at the Ethernet connector of the unit; unscrew the watertight cap if necessary to view the LEDs. Make sure the sealing nut is loose before unscrewing the cap or the Ethernet cable may be twisted and damaged.

Notes:

- Proxim recommends the use of a lightning arrestor at the building ingress point. You can purchase the Proxim Lightning Protector MP.11/QB.11 (70251); see the Tsunami MP.11 Antenna Installation Guide for more information and installation instructions for the lightning arrestor.
- At the end of the installation, the Ethernet and serial ports must be made waterproof by installing the caps.

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6) VIEW LEDS

When the unit is powered on, it performs startup diagnostics. When startup is complete, the LEDs show the unit's operational state. The LEDs are present at the unit's Ethernet connector; unscrew the watertight cap if necessary to view the LEDs.

Note:

Make sure the domed sealing nut of the Liquid-Tite connector is loose before unscrewing the cap or the Ethernet cable may be twisted and damaged.

During bootup, all LEDs are blinking. Blinking can continue for up to four minutes (when DFS is enabled, for example); however, if the LEDs are still blinking for over four minutes, you should check your installation and proper operation of the Ethernet and wireless links to other units. If they are correct, contact Technical Support; there could be a problem with your hardware.

Notes:

- When powering the unit in below freezing temperatures, the unit must self-heat before booting. This is indicated by a solid red LED. This state can take up to 30 minutes, depending upon the ambient temperature.
- The two LEDs also are continually blinking if there is any serious initialization error or when Ethernet and wireless connections both are not established. If the Ethernet is connected to a hub, check the powering of the hub and Ethernet cable type (crossover/straight-through). If the peer unit is operational,you should check the configuration of the units.



Power & Ethernet Link	
BLINKING GREEN	Power is on and the Ethernet link is down
GREEN	Power is on and the Ethernet link is up.
RF (Wireless) Link	
RED	Power is on, unit is self-heating
BLINKING GREEN	A wireless link is being established.
GREEN	A wireless link has been established.

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7) INSTALL THE DOCUMENTATION AND SOFTWARE

The units come with documentation and software on a CD. To install the documentation and software on a computer or network:

1. Place the CD in a CD-ROM drive. The installer normally starts automatically. You can also start the installer manually by running the setup.exe program from the CD.
2. Click the **Install Documentation and Software** button and follow the instructions displayed on the installer windows.

The CD contains the following documentation and software:

Online help

This is the help for the Web Interface. It is also stored on your computer or network during the installation process, so it is always available **(see c:\ Program Files\Tsunami\QB11)**.

Documentation

- Release Notes
- Setting Up Your QuickBridge Link
- Tsunami QuickBridge.11 Installation and Management
- Tsunami QuickBridge.11 Reference Manual
- Safety and Regulatory Information.

You can find this documentation in the Docs folder of the product CD, or see **c:\Program Files\Tsunami\QB11.**

ScanTool

ScanTool automatically detects the units installed on the segment of your network to which you are directly connected, regardless of IP address, and lets you configure each unit's IP settings. See "Setting the IP Address Manually" for details. You can find ScanTool in the **c:\Program Files\Tsunami\QB11** directory of your PC after installation.

TFTP Server

The TFTP (Trivial File Transfer Protocol) server lets you transfer files across the network. You can download configuration files, as well as image files for embedded software upgrades, and you can upload files from the unit for backup. Here *downloading* means transferring files to the unit and *uploading* means transferring files in the opposite direction. See "TFTP Server Setup" in the Installation and Management manual for more information. You can install the TFTP server from the product CD.

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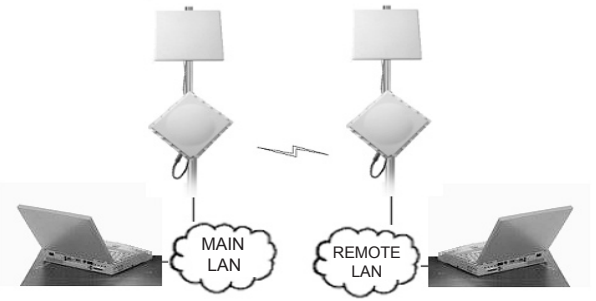
8) SET UP YOUR BRIDGE

This section explains how to set up a wireless point-to-point bridge between your Main LAN and a Remote LAN. With the QuickBridge kit, you can set up a wireless link using two Model 5054 R or two Model 2454-R units (with integrated antennas).



Note:

Before final installation, Proxim recommends you perform the checks in "Confidence Test" first to ensure successful installation.

The CD shipped with the product contains documentation for the units; see this CD for the *Quick Install Guide*, which provides instructions for installing these units.

What is Needed?

To set up your wireless bridge, the following is required:

- A personal computer; preferably a laptop with a working network connection through the laptop's Ethernet port. This computer will be used during the confidence test and the installation on the Remote LAN side.
- A functioning 10 or 100 Base-T Ethernet port on the Local Area Network. Bear in mind that each unit must be mounted within cable length of the Ethernet port. This port will be used for the confidence test as well as for the installation.
- Suitable locations for the units so that they can "see" each other (line-of-sight).
- A power outlet for the unit's power injector

Confidence Test

The confidence test verifies the equipment's operation and configuration, as well as the network connection with the Main LAN prior to the actual installation.

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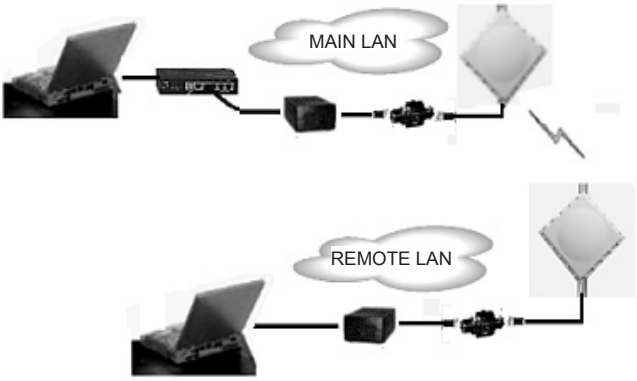
To perform the confidence test:

1. Connect the laptop directly to the network Ethernet port (with the straight-through cable) and ensure that the connection is working (for example, by browsing the Web or using e-mail). Proxim recommends you use the same network Ethernet port you will use in the final installation.

2. Disconnect the personal computer and set up the equipment as follows (the Main LAN is shown attaching through a hub; the Remote LAN is shown directly connecting to the PC). Be sure to install a lightning protector close to the point at which the cable enters the building.



Use a straight-through Ethernet cable to connect the BSU to the network Ethernet port. Make sure that the two units are not too close (at least 10 feet apart) because the radio signal from the antennas may be too strong to get good reception, resulting in a bad quality due to distortion in the receiver. You should not aim the antennas at each other to avoid too high signal level. The SNR (Signal-to-Noise Ratio) should be no more than 50 dB to guarantee a good reception. The SNR is displayed in the Link Test and Per Station monitoring Web Interface pages and is displayed on the serial port through the CLI when the serial dongle is plugged into the unit.

Note:

The receiver will not get damaged from pointing the units at each other at close distance (only the quality of the link is negatively affected); however, the Confidence Test may fail.

A crossover Ethernet cable must be used to connect the second unit directly to the PC.

3. Power on both units. When the power is switched on, each unit performs startup diagnostics. When startup is complete, the LEDs show the unit's operational status. After approximately one minute (four minutes when

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DFS is enabled), the wireless LED should briefly blink green and turn solid green when the wireless link between the two units is established.

The wireless LED for both units should be green when both units are operational and the antennas adequately aligned (after final installation).

As soon as the connection is broken by powering off one of the units or by moving one of the units out of range, the wireless connection will be timed out and the LED starts blinking after about 20 seconds.

Once both units are oprational and the configuration checked, if necessary to establish a signal, the wireless LEDs turn green again. Check whether the network connection is working correctly (by accessing the Web or e-mail). When all tests have passed successfully, the wireless point-to-point bridge is ready to be installed.

Proxim recommends that the Main LAN unit be installed at the location from where you expect the wireless network to be extended in the future.

Installing the Wireless Bridge

1. Set up the equipment as shown on the previous page for the appropriate LAN side. Depending upon the configuration of your Remote LAN, you must use the proper Ethernet cable.

   - On the Main LAN side, use a straight-through Ethernet cable to connect the unit to the network Ethernet port.
   - On the Remote LAN side, use a crossover cable to connect the unit to the personal computer.

   Make sure the units point in the direction of each other for proper line-of-sight when they finally are installed. During the confidence test, the units should not be aligned at close range.

2. Ensure that the surge arrestor is fastened securely and connected to the grounding system. See "Appendix E. Lightning Protection" in the Installation and Management manual for lightning protector information and installation instructions.

CAUTION:

The surge arrestor must be connected to the grounding system to protect your equipment against lightning.

---

3. Power on both units. When the power is switched on, the unit performs startup diagnostics. When startup is complete, the LEDs show the unit's operational status. After approximately one minute (four minutes when DFS is enabled), the wireless LED should briefly blink green and turn solid green when the wireless link between the two units is established.

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4. Verify that the wireless point-to-point link is working correctly (for example, by browsing the Web or by using email).

9) MOUNT THE UNITS OUTDOORS

Select a Location

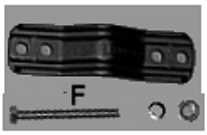
When selecting a location in which to install the units:

- Determine the direction to the unit
- Avoid obstructions and foliage that could block the signal
- Place the power injector in a weatherproof enclosure near the unit or inside the building.

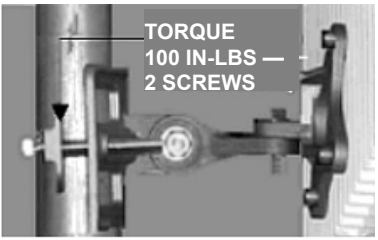
If necessary, disconnect the cables you used to configure the units inside, move the units to their outdoor locations, and then connect them to the network segments you want to bridge together.

Pole Mount

To pole-mount, insert screws through bracket (F) (Hex cap screw --> lock washer --> plain washer), fasten around pole to bracket (E), and secure.

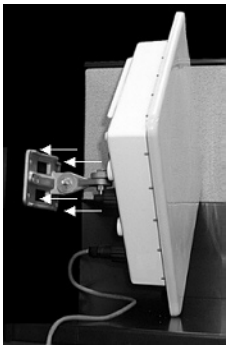






Wall Mount

To wall-mount the unit, mount bracket (E) to wall using 4 screws (not provided), as shown:



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10) ALIGN THE ANTENNA

Antenna alignment is a process to physically align the antenna of the unit's receiver or the transmitter to have the best possible link established between them. The antenna alignment process usually is performed during installation and after major repairs.

Serial Connection

To assist you in aligning the antenna (and to issue CLI commands), you can use the unit's serial connection. This connection is made with an RJ11 to DB9 connector (also referred to as a "dongle"). Connect the RJ11 end to the unit and connect the serial (DB9) end to your PC.

The serial connection is made with an RJ11 to DB9 connector (also referred to as a "dongle"). Connect the RJ11 end to the radio and connect the serial (DB9) end to your PC to assist you in aligning the antenna and to issue CLI commands.



The connections are:

D-Shell	RJ-11
1	NC
2	2
3	4
4	NC
5	1 + 3 + 5
6	6
7	NC
8	NC
9	NC

Audible Alignement Tool

The unit has an audible antenna alignment tool that can be activated by plugging in the supplied serial dongle (supplied with every BSU) or by issuing the CLI command for antenna alignment. The CLI command causes both audible and numerical feedback as the CLI shows the running Signal-to-Noise Ratio (SNR) values twice a second.

The output from the beeper for antenna alignment consists of short beeps with a variable interval. The interval changes with the SNR level to assist in correctly aligning the antenna. An increase in signal level is indicated by a shorter interval between beeps; a reduction in signal level results in beeps longer apart.

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When the antenna is aimed, the beep intuitively represents whether the SNR is rising or falling: the higher the SNR rises, the shorter the period the beep is heard and the higher the frequency of the beep.

After the position of the antenna has been changed, SNR averaging settles at the new value and the beeping returns to the average length so the antenna can again be aimed for rising SNR.

Aiming is complete if moving in any direction results in a falling SNR value (which can be heard as longer periods between beeps).

Notes:

- Antenna alignment for the Base Station is useful only for a point-to-point link.
- The range of the average SNR has been limited to values from 5 to 43; therefore, anything over 43 always results in a short period between beeps and values below 5 always have a long period.
- The Antenna Alignment Display (AAD) CLI command is disabled automatically 30 minutes after it is enabled to remove the load of extra messages on the wireless interface. The default telnet timeout is 900 seconds (15 minutes). If AAD must run for the entire 30 minutes, change the default telnet timeout value to a value greater than 30 minutes (greater than 1800 seconds). This restriction is for telnet connections only and not for the serial interface. The serial interface never times out; however, the AAD command does still time out.

Antenna Alignment Commands

set aad enable local

Enables display of the local SNR. Local SNR is the SNR measured by the receiver at the near end.

set aad enable remote

Enables display of the remote SNR. Remote SNR is the SNR as measured by the receiver at the far end.

set aad enable average

Enables display of the average SNR. The average SNR is the average of the local and remote SNR.

set aad disable

Disables Antenna Alignment Display (Ctrl-C also disables AAD).

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11) COMPLETE INSTALLATION

Be sure you have re-installed the waterproof caps on the serial port connection.

Caution!

Do not over-tighten the rear nut on the waterproof connector assembly. Over-tightening can cause the Cat 5 cable to crush and can subsequently damage the power injector or the radio unit. The recommended torque for the rear nut is 25-30 inch-pounds.

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II. ACCESSING THE QUICKBRIDGE.11 UNITS

1) SETTING THE IP ADDRESS

Because each network is different, an IP address suitable for your network must be assigned to the unit. You must know this IP address to configure and manage the unit through its Web Interface, SNMP, or the CLI. You can manage other basic parameters as well. ScanTool is included on the documentation and software CD to assist you in finding and changing the unit's IP address.

The unit either obtains its IP address automatically through DHCP (dynamic IP address) or it must be set manually (static IP address). With ScanTool, you can determine the current IP address of the unit and, if necessary, change it to be appropriate for your network. The unit is shipped with the static IP address 10.0.0.1 configured.

To set the IP address:

1. Run ScanTool on a computer connected to the same LAN subnet as the unit, or a computer directly connected to the unit with a cross-over Ethernet cable. ScanTool (scantool.exe) has been installed on your computer at the following location: c:\Program Files\Tsunami\QB11 . ScanTool scans the subnet for QuickBridge.11 units and displays the units it finds in the main window. If necessary, click Rescan to re-scan the subnet and update the display.

2. Select the unit for which you want to set the IP address and click Change. The Change dialog window is displayed.

3. To set the IP address manually, ensure that Static is selected as the IP Address Type and fill in the IP Address and Subnet Mask suitable for the LAN subnet to which the unit is connected.

   To set the IP address dynamically, ensure that Dynamic is selected as the IP Address Type. The unit will request its IP address from a DHCP server on your network.

4. Enter the Read/Write Password (the default value is public) and click OK to confirm your changes. The respective 5054-R reboots to make the changes effective.

2) ACCESSING THE WEB BROWSER

To access the unit with a Web browser:

1. Start your Web browser and enter the IP address of the unit in the **Address** box. The Web address should appear as http://<ip address> (for example, http://10.0.0.1).

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2. A login window is displayed. Do not fill in the User name; *enter only the default password **public** or the configured password*.

3. Upon successful login, the **System Status** window is displayed.

3) ACCESSING THE COMMAND LINE INTERFACE

The CLI is accessible through the Ethernet port connected through the network, or with a cross-over Ethernet cable between the computer and the serial port of the 5054-R.

Ethernet Port

To use the CLI through the Ethernet port, you must have a telnet program and know the unit's IP address.

1. From the Windows Start menu, select **Run**; enter **cmd**.

2. In the DOS window displayed, enter the IP address (for example, telnet 10.0.0.1).

3. Click **OK** to start the telnet program; you are prompted for your password.

4. Enter the password (the default password is **public**).

Serial Port

In some cases, it may not be possible to retrieve the IP address of the 5054-R. In this case, you can connect to the serial port by connecting the included RJ11 to DB9 connector from the unit (RJ11 connection) to your computer's serial port (DB9 connection). Proxim recommends you switch off the unit and the computer before connecting or disconnecting the serial cable.

To access the QuickBridge.11 unit through the serial port:

1. Start your terminal program.

2. Set the following connection properties; then connect:

COM port:	such as COM1 or COM2, to which the unit's serial port is connected
Bits per second:	9600
Data bits:	8
Stop bit:	1
Flow control:	None
Parity:	None
Line ends:	Carriage return with line feed

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3. Disconnect and reconnect power to reset the unit. After approximately 90 seconds you are prompted for your password.

4. Enter the default password **public**.

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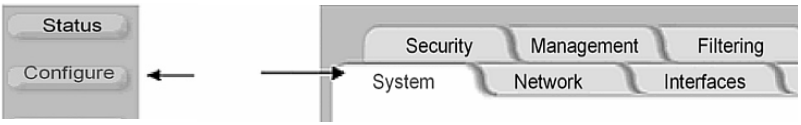
III. MANAGING YOUR BRIDGE

To view or change basic system information, click the **Configure** button on the left side of the Web interface window, then click the **System** tab.



1) SELECTING A COUNTRY

The QuickBridge.11 software provides a selectable Country field that automatically provides the allowed band and frequencies for the selected country as well as, where applicable, Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC). A country selection with DFS enabled causes the Base Station to come up in scan mode. It scans the available frequencies and channels to avoid radar and select a channel with the least interference.

By default, the 5054-R and 2454-R units let you transmit at the maximum output power for the country or regulatory domain and frequency selected. However, with Transmit Power Control (TPC), you can adjust the output power of the unit to a lower level in order to reduce interference from neighboring devices or to use a higher gain antenna without violating the maximum radiated output power allowed for your country

- Units sold in the United States are pre-configured to scan and display only the frequencies permitted by the FCC. No other Country selections, channels, or frequencies may be configured.
- Units sold outside of the United States and Canada support the selection of a Country by the professional installer. Click the Configure button and the System tab; then select the appropriate country for your regulatory domain.

Continue configuring settings as desired; then click the Commands button and the Reboot tab to save and activate the settings.

2) CHANGING THE IP CONFIGURATION

To change the IP Configuration, click the Configure button and the Network tab; then click the IP Configuration tab.

3) CONFIGURING INTERFACES

To configure the Ethernet and Wireless interfaces, click the Configure button and the Interfaces tab.

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4) CHANGING SECURITY SETTINGS

Proxim highly recommends you change the Network Name, encryption key, and Shared Secret as soon as possible. To do so, click the Configure button and the Interfaces tab; then click the Wireless sub-tab. The encryption key is set using the Security tab. For systems that will use roaming features, the Network Name, encryption key, and Shared Secret should each be the same for all units that are allowed to roam.

To change the passwords of the 5054-R, click the Configure button, the Management tab, then the Passwords, sub-tab.

5) UPGRADING EMBEDDED SOFTWARE

The QuickBridge.11 units are equipped with embedded software. Updates of this software can be found on the Proxim Internet site. Not all software releases support all Tsunami MP.11 products. Proxim recommends that you always refer to the Release Notes to determine whether the version of software to which you want to upgrade is supported on your product. To download files to the QuickBridge.11 units, click the Commands button and select the Download tab.

6) APPLYING CHANGES

To apply your changes to the QuickBridge.11 units, reboot the devices. If you do not want to reboot immediately, issue the CLI save command to ensure your changes are saved. When you do reboot, the unit is restarted with the new settings.

In the Web interface, click the Commands button and the Reboot tab to issue the reboot command.

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IV. DEFAULT SETTINGS

Feature	Default
System Name	Tsunami QuickBridge.11 Model 5054-R
Mode of Operation	Bridge
Routing	Disabled
IP Address Assignment Type	Static
IP Address	10.0.0.1
Subnet Mask	255.255.255.0
Default Router IP Address	10.0.0.1
Default TTL	64
RIPv2	Enabled when in Routing Mode
Base Station System Name	<blank>
Network Name	OR_WORP
Frequency Channel	Channel 149, Frequency 5.745 GHz (FCC Only devices) DFS Enabled (World Mode devices) for 5054-R units and Channel 10 (2.412 – 2.462 GHz) for 2454-R units
Transmit Power Control	0 dB
Data Rate	36 Mbps
Registration Timeout	5
Network Secret	public
Turbo mode	Disabled
Channel Bandwidth	20 MHz
Input bandwidth limit (in kbps)	108064
Output bandwidth limit (in kbps)	108064
Ethernet Configuration	auto-speed auto-duplex
Serial port Baud Rate	9600
SNMP Management Interface	Enabled
Telnet Management Interface	Enabled
HTTP Management Interface	Enabled
HTTP Port	80
Telnet Port	23
Telnet Login Timeout	30
Telnet Session Timeout	900
Password	public

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Feature	Default
Maximum Satellites (per BCU)	1
MAC Authentication	Disabled
Radius Authentication	Disabled
Encryption	Disabled
Static MAC Address Filter	Disabled / No Entries
Ethernet Protocol Filtering	All Filters Disabled
DFS Priority Frequency Channel	Disabled
Announcement Period (when roaming enabled)	100 ms
Multi-Frame Bursting	Enabled
Storm Threshold	Broadcast/Multicast Unlimited
Broadcast Protocol Filtering	All Protocols Allowed
Dynamic Data Rate Selection	Enabled
Roaming	Disabled
NAT	Disabled
Intra-Cell Blocking	Disabled
Antenna Alignment	Disabled
Country Selection	US-only device – US World device – GB
DHCP Server	Disabled
DHCP Relay	Disabled
Spanning Tree Protocol	Disabled
Antenna Gain (For DFS Threshold compensation)	0 at installation or first configuration: must be set to 23 dBi for 5054-R units and 17 dBi for 2454-R units
Satellite Density	Large
WORP No Sleep Mode	Enabled
Temperature Logging	Enabled
Temperature Logging Interval	60 minutes
VLAN Mode	BSU: Transparent mode SU: Transparent mode when BSU in transaparent mode. Trunk mode when BSU in Trunk mode.
Access VLAN ID	BSU: N/A SU: 1
Access VLAN Priority	BSU: N/A SU: 0
Management VLAN ID	BSU: -1 SU: -1
Management VLAN Priority	BSU: 0 SU: 0

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Feature	Default
VLAN ID in Trunk VLAN Table	BSU: N/A SU: 1

V. SUPPORT AND CONTACTS

If you are having a problem using a Proxim WAN product and cannot resolve it with the information in the product documentation, gather the following information and contact Proxim Technical Support at http://support.proxim.com/:

- What kind of network are you using?
- What were you doing when the error occurred?
- What error message did you see?
- Can you reproduce the problem?

Be sure to obtain an RMA number at http://www.proxim.com/support/rmaservices/ before sending any equipment to Proxim for repair.

Email Support

To receive E-mail technical support, be sure to include the serial number of the product(s) in question. The serial number should be on the product and conform to the following format: ##AT########, ##UT########, or ##R7########. We are unable to respond to your inquiry without this information.

Telephone Support

Telephone support is available M-F 8:00 AM to 6:00 PM, Pacific Time. Use the following telephone numbers:

USA and Canada: 1-866-674-6626 (Toll Free)

International: +1-408-542-5390

Proxim Web Site Support

Search Knowledgebase: http://support.proxim.com/

Download latest software and documentation: http://support.proxim.com/

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