



#### **APPLICATIONS**

- Last mile access
- Extending VoIP service to remote sites
- Leased line replacement
- Fast service deployment into multi-tenant, rural areas
- Campus networking

# **Tsunami Multipoint** Wireless Point-to-Multipoint System

#### Cutting-Edge Technology Delivers Carrier-Class Performance

The Tsunami Multipoint wireless Ethernet system delivers cutting-edge technology built on over twenty years of wireless innovation at Proxim. Advanced features deliver reliable, cost-effective alternatives to legacy leased lines, while delivering superlative network performance. The combined throughput and reliability make the Tsunami Multipoint systems perfect for high-performance campus networks, and densely populated last mile Internet access. Proxim point-to-multipoint innovation includes:

- Patented Active Interference Rejection (AIR) technology, which uses a pre-processing filter to nullify interference in the 5.8 GHz band
- Proxim's finely honed wireless transmission protocol, which delivers 200% better throughput than competitors, achieved through protocol efficiency gains
- Specialized traffic prioritization algorithms and VLAN functionality, enabling latency-sensitive application performance
- Unique Ethernet plus power technology, combining power and network connections into a single Cat5 link
- Connections engineered with true carrier-class 99.995% reliability

#### Simplify Operations and Cost-structure

Tsunami Multipoint dramatically simplifies the installation and maintenance of high-performance network links. These results translate into a quick payback period relative to leased lines, and have many direct cost-saving benefits.

• Private infrastructure eliminates recurring monthly leases and bypasses telephone tolls

- Outdoor weatherized Subscriber Unit allows system maintenance without entering the subscriber's building
- Single cable design eliminates installation labor and expense
- Antenna connectors facilitate coverage area "shaping" and reduce initial infrastructure costs
- Audible tones guide directional positioning, allowing one-person installation
- Remote SNMP management proactively detects issues
- Unlicensed band operation eliminates regulatory delays and fees/costs

#### **Unrivaled Performance Trounces Competition**

Performance, capacity and scalability are critical concerns in designing business networks. Whether it's expanding service footprint or connecting buildings on a new campus, system performance dictates the success of critical applications. Tsunami Multipoint offers:

- Industry-leading 60 Mbps and 20 Mbps over-theair transmission rates
- Unrivaled 54 Mbps and 18 Mbps throughput rates 200% higher than closest competitor
- 99.99%+ effective interference prevention, yielding superior performance in high-density areas
- Base Station Unit support for 1000+ Subscribers Units, scaling to network and subscriber demand
- 6 miles/10km range, easily linking sites and extending VoIP functionality



## Tsunami Multipoint Specifications

	MODEL	MODEL NUMBER	, T	AGGREGATE THROUGHPUT		THRESHOLD (BER=1X10 <sup>-6</sup> )	OUTPUT EIRP	ACTIVE INTERFERENCE REJECTION (A.I.R)		
Base Station Unit (BSU)	60 Mbps 20 Mbps 60 Mbps 20 Mbps	301-40400- 301-40400- 301-40400- 301-40400-	-65 -25 -65R -25R	17, 25.5, 34, 17 Mbps 17, 25.5, 34, 17 Mbps	51 Mbps 51 Mbps	-77 dBm -89 dBm -77 dBm -89 dBm	36 dBm 36 dBm 36 dBm 36 dBm	v v		
Subscriber Unit (SU)	60 Mbps 20 Mbps	301-40100- 301-40100-	-652 -252	17, 25.5, 34, 17 Mbps	51 Mbps	-89, -81, -77 dBm -89 dBm	n 35 dBm 35 dBm			
SYSTEM										
Operating Frequ	uency Range		5725-582	5 MHz						
Radio Access M	ethod		TDMA							
Duplexing			Time Divis	ion Duplex (T	DD)					
Integrated Ante	nna: BSU/SU		18 dBi (60	)° x 6°)/20 dBi	(10° x 10°)					
Max Subscriber Units/BSU			1,023							
Distance/Capac (clear line of site	ity Limits e/over the air)		60 Mbps at 3 miles/5 kilometers; 20 Mbps at 6 miles/10 kilometers							
Frequency Char	nels	4 non-overlapping, 6 available								
Regulatory Com	npliance		FCC Part 15.400 (U-NII); FCC Part 15.247 (ISM) 20 Mbps only; Industry Canada RSS210							
STANDARDS COMPLIANCE AND INTERFACES										
Ethernet Interfa	се		10/100Bas	seT						
Ethernet Conne	ctor		RJ45 fema	ale						
SU indoor-outdoor cable			RJ45 (outo	door) & DIN (i	ndoor) over (	Category-5 cable				
BSU indoor-out	door cable	Weatherproof RJ45 connectors over Category-5 cable								
Standards Com	pliance		IEEE 802.1	ld Bridging M	lode; IEEE 802	2.1g transparent V	'LAN tagging			
CONFIGURATIO	ON AND MAN	AGEMENT								
Base Station Un	it Configuratio	n	Via Ethern	et						
Subscriber Unit	Configuration		Automatic	:						
Management			Via option	al SNMP Tool	kit (p/n 501-	40400-ST)				
Security			Authentica	ation, IP/MAC	2 Filtering					
Software Upgra	des		Over-the-ai	ir Subscriber U	Init reprogram	ming; Downloadab	le Base Station	Unit reprogramming		
POWER/ENVIR	ONMENT					-				
Electrical:										
Base Station Un	it	+	+48 Volts D	DC, 1 Amp						
Subscriber Unit	it Power Brick	-	+28 Volts E	DC, 0.6 Amps	60 Hz					
Subscriber Unit	Power Brick		110 or 220 Volts AC							
Operational Tem	nperature	-	-25°–55° C	(BSU and SU	only)					
Humidity			5%-100%	%, condensing	g					
MTBF			Base Statio	on Unit: 75,00	00 hours; Sub	scriber Unit: 100,0	000 hours			
FCC			Part 15/C	lass B						
PHYSICAL DIM	IENSIONS		SIZE (W x	H x D)		1	NEIGHT			
SU (Outdoor Un	it)		10.5 x 10.	5 x 6.8 in/26	.5 x 26.5 x 1	7.4 cm 1	10 lbs/4.5 kg			
SU Power Brick	(Indoor Unit)		3.6 x 5.1 >	x 2.6 in/9.2 x	13 x 6.7 cm	2	2.7 lbs/1.2 kg			
BSU (Outdoor U	nit)		10.2 x 24	x 6.6 in/25.9	x 61 x 16.8	cm 2	20 lbs/9 kg			
BSU Power Brick	k (Indoor Unit)		3.7 x 7.1 >	x 2.5 in/9.5 x	18 x 6.3 cm	1	1.5 lbs/0.7 kg			
MOUNTING (IN	ISTALLATION)									
Base Station Un Subscriber Unit	it		Pole Mour Pole Mour	nt, 1.75–2.75 nt, 1.25–1.75	in dia. in dia.					
WIND LOADIN	G									
Maximum opera	ational wind sp	eed	50m/s (11	2mph)						
Maximum surviv	vable wind spee	ed	90m/s (20	0mph)						
WARRANTY										
1-year limited p	arts and labor									

Service Packs available for priority technical assistance



### Tsunami Multipoint with External Antenna Connector

Proxim Corporation is a global leader in wireless networking equipment for Wi-Fi and broadband wireless networks. The company provides its enterprise and service provider customers with wireless solutions for the mobile enterprise, public hot spots, security and surveillance, last mile access, metropolitan area networks and voice and data backhaul.

**About Proxim** 

Base Station Unit (BSU)	60 Mbps	301-40400-650	17, 25,5, 34, 51 Mbps	-77 dBm	17 dBm			
Subscriber Unit (SU)	60 Mbps	301-40100-652C	17, 25.5, 34, 51 Mbps	-89, -81, -77 dBm	17 dBm			
Operating Frequency Bang	10							
Padia Access Method	je							
May Subscriber Units (PSU		וווע טעאוע טעאיז (עעד) 1 022						
Distance (Canacity Limits		I,U23						
(clear line of site/over the a	air)	ou iviups at 4 miles/0.9 kilometers; 20 ivipps at 6 miles/10 kilometers						
Frequency Channels		4 non-overlapping, 6 available						
Regulatory Compliance		FCC Part 15.400 (U-NII); Industry Canada RSS210						
STANDARDS COMPLIAN	CE AND INTER	RFACES						
Ethernet Interface		10/100BaseT						
Ethernet Connector		RJ45 female						
SU indoor-outdoor cable		RJ45 (outdoor) & DIN (indoor) over Category-5 cable						
BSU indoor-outdoor cable		Weatherproof RJ45 connectors over Category-5 cable						
External Antenna Connect	or	Standard -N Female						
Standards Compliance		IEEE 802.1d Bridging Mode: IEEE 802.1g transparent VLAN tagoing						
CONFIGURATION AND N	/ANAGEMEN <sup>®</sup>	T						
Base Station Unit Configur	ration	Via Ethernet						
Subscriber Unit Configurat	tion	Automatic						
Management		Via optional SNMP Toolkit (p/n 501-40400-ST)						
Security		Authentication, IP/MAC Filtering						
		Over-the-air Subscriber Unit reprogramming; Downloadable Base Station Unit reprogramming						
Software Upgrades		Over-the-air Subscri	ber Unit reprogramming; Dov	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT		Over-the-air Subscri	ber Unit reprogramming; Dov	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical:		Over-the-air Subscri	ber Unit reprogramming; Dov	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit		Over-the-air Subscri +48 Volts DC, 1 An	ber Unit reprogramming; Dov	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power B	rick	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100-240 Volts AC	ber Unit reprogramming; Dov np Amps 50/60 Hz	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Subscriber Unit Power Bric	rick :k	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100–240 Volts AC 110 or 220 Volts A	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Operational Temperature	rick :k	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only)	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Operational Temperature Humidity	rick .k	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an 5%–100%, conde	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only) ensing	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Subscriber Unit Power Bric Operational Temperature Humidity MTBF	rick k	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an 5%–100%, conde Base Station Unit:	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only) ensing 75,000 hours; Subscriber Ur	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Operational Temperature Humidity MTBF FCC	rick .k	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an 5%–100%, conde Base Station Unit: Part 15/Class B	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only) ensing 75,000 hours; Subscriber Ur	vnloadable Base Station U	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Brice Operational Temperature Humidity MTBF FCC PHYSICAL DIMENSIONS	rick k	-48 Volts DC, 1 An +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an 5%–100%, conde Base Station Unit: Part 15/Class B SIZE (W x H x D)	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only) ensing 75,000 hours; Subscriber Ur	vnloadable Base Station U nit: 100,000 hours WEIGHT	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Operational Temperature Humidity MTBF FCC PHYSICAL DIMENSIONS SU (Outdoor Unit)	rick k	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an 5%–100%, conde Base Station Unit: Part 15/Class B SIZE (W x H x D) 10.5 x 10.5 x 6.8 i	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only) msing 75,000 hours; Subscriber Ur n/26.5 x 26.5 x 17.4 cm	nit: 100,000 hours WEIGHT 10 lbs /4.5 kg	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Operational Temperature Humidity MTBF FCC PHYSICAL DIMENSIONS SU (Outdoor Unit) SU Power Brick (Indoor Un	rick k	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 A 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an 5%–100%, conde Base Station Unit: Part 15/Class B SIZE (W x H x D) 10.5 x 10.5 x 6.8 i 3.6 x 5.1 x 2.6 in/	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only) msing 75,000 hours; Subscriber Ur n/26.5 x 26.5 x 17.4 cm 9.2 x 13 x 6.7 cm	nit: 100,000 hours WEIGHT 10 lbs/4.5 kg 2.7 lbs/1.2 kg	nit reprogramming			
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Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Operational Temperature Humidity MTBF FCC PHYSICAL DIMENSIONS SU (Outdoor Unit) SU Power Brick (Indoor Un BSU (Outdoor Unit) BSU Power Brick (Indoor Un BSU (Outdoor Unit) BSU Power Brick (Indoor Un MOUNTING (INSTALLATIO Base Station Unit Subscriber Unit WIND LOADING Maximum operational win Maximum survivable wind WARRANTY	rick :k hit) Jnit) ON) d speed speed	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 Å 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an 5%–100%, conde Base Station Unit: Part 15/Class B SIZE (W x H x D) 10.5 x 10.5 x 6.8 i 3.6 x 5.1 x 2.6 in/ 10.2 x 24 x 6.6 in/ 3.7 x 7.1 x 2.5 in/ Pole Mount, 1.75- Pole Mount, 1.25- 50m/s (112mph) 90m/s (200mph)	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only) ensing 75,000 hours; Subscriber Ur n/26.5 x 26.5 x 17.4 cm 9.2 x 13 x 6.7 cm /25.9 x 61 x 16.8 cm 9.5 x 18 x 6.3 cm -2.75 in dia. -1.75 in dia.	nit: 100,000 hours WEIGHT 10 lbs/4.5 kg 2.7 lbs/1.2 kg 20 lbs/9 kg 1.5 lbs/0.7 kg	nit reprogramming			
Software Upgrades POWER/ENVIRONMENT Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Bric Operational Temperature Humidity MTBF FCC PHYSICAL DIMENSIONS SU (Outdoor Unit) SU Power Brick (Indoor Un BSU (Outdoor Unit) BSU Power Brick (Indoor Un BSU (Outdoor Unit) BSU Power Brick (Indoor Un MOUNTING (INSTALLATIO Base Station Unit Subscriber Unit WIND LOADING Maximum operational win Maximum survivable wind WARRANTY 1-year limited parts and la	rick :k hit) Jnit) ON) d speed speed bor	Over-the-air Subscri +48 Volts DC, 1 An +28 Volts DC, 0.6 Å 100–240 Volts AC 110 or 220 Volts A -25°–55° C (BSU an 5%–100%, conde Base Station Unit: Part 15/Class B SIZE (W x H x D) 10.5 x 10.5 x 6.8 i 3.6 x 5.1 x 2.6 in/ 10.2 x 24 x 6.6 in/ 3.7 x 7.1 x 2.5 in/ Pole Mount, 1.75- Pole Mount, 1.25- 50m/s (112mph) 90m/s (200mph)	ber Unit reprogramming; Dov np Amps , 50/60 Hz AC d SU only) ensing 75,000 hours; Subscriber Ur n/26.5 x 26.5 x 17.4 cm 9.2 x 13 x 6.7 cm /25.9 x 61 x 16.8 cm 9.5 x 18 x 6.3 cm -2.75 in dia. -1.75 in dia.	nit: 100,000 hours WEIGHT 10 lbs/4.5 kg 2.7 lbs/1.2 kg 20 lbs/9 kg 1.5 lbs/0.7 kg	nit reprogramming			

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OUTPUT POWER