



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	AGGREGATE	THRESHOLD	OUTPUT	ACTIVE INTERFERENCE		
		NUMBER	THROUGHPUT	(BER=1X10 ⁻⁶)	EIRP	REJECTION (A.I.R)		
Base Station Unit (BSU)	60 Mbps 20 Mbps	301-40400-65 301-40400-25	17, 25.5, 34, 51 Mbps 17 Mbps	-77 dBm -89 dBm	36 dBm 36 dBm			
Unit (BSO)	60 Mbps	301-40400-25 301-40400-65R	17, 25.5, 34, 51 Mbps	-77 dBm	36 dBm	~		
	20 Mbps	301-40400-25R	17 Mbps	-89 dBm	36 dBm	V		
Subscriber	60 Mbps	301-40100-652	17, 25.5, 34, 51 Mbps	-89, -81, -77 dBm	35 dBm			
Unit (SU)	20 Mbps	301-40100-252	17 Mbps	-89 dBm	35 dBm			
SYSTEM	5	5725 1	005 N 44					
Operating Freq			5825 MHz					
Radio Access N	lethod	TDMA	inisian Dunlay (TDD)					
Duplexing			Time Division Duplex (TDD) 18 dBi (60° x 6°)/20 dBi (10° x 10°)					
Integrated Antenna: BSU/SU Max Subscriber Units/BSU			1,023					
Distance/Capa		,	60 Mbps at 3 miles/5 kilometers; 20 Mbps at 6 miles/10 kilometers					
(clear line of sit	te/over the air)		· ·	zo mbps at o miles/ n	U KIIOITIELEIS			
Frequency Cha			4 non-overlapping, 6 available					
Regulatory Compliance FCC Part 15.400 (U-NII); FCC Part 15.247 (ISM) 20 Mbps only; Industry Canada RSS								
		AND INTERFACES						
Ethernet Interfa		10/100						
Ethernet Conne		RJ45 f						
SU indoor-outdoor cable RJ45 (outdoor) & DIN (indoor) over Category-5 cable								
BSU indoor-outdoor cable Weatherproof RJ45 connectors over Category-5 cable								
Standards Com	1		02.1d Bridging Mode; IEEE 8	SUZ. I q transparent VL	AN tagging			
			exect					
Base Station Ur			Via Ethernet Automatic					
Subscriber Unit	Configuration			1 40400 ST)				
Management Via optional SNMP Toolkit (p/n 501-40400-ST)								
Security Authentication, IP/MAC Filtering Software Upgrades Over-the-air Subscriber Unit reprogramming; Downloadable Base Station Unit reprog								
POWER/ENVIE		Over-ti	le-all Subscriber Onit reprogra	inining, Downloadable	Base Station			
Electrical:								
Base Station Ur	nit	+48 Vo	ts DC, 1 Amp					
Subscriber Unit			+28 Volts DC, 0.6 Amps					
Base Station Ur			100–240 Volts AC, 50/60 Hz 110 or 220 Volts AC					
Subscriber Unit Power Brick Operational Temperature			-25°–55° C (BSU and SU only)					
Humidity	ilperature		00%, condensing					
MTBF			Base Station Unit: 75,000 hours; Subscriber Unit: 100,000 hours					
FCC			J/Class B					
PHYSICAL DIN	/IENSIONS		V x H x D)	W	'EIGHT			
SU (Outdoor Ur			10.5 x 6.8 in/26.5 x 26.5 x) lbs/4.5 kg			
SU Power Brick	,		i.1 x 2.6 in/9.2 x 13 x 6.7 c		7 lbs/1.2 kg			
BSU (Outdoor L		10.2 x	24 x 6.6 in/25.9 x 61 x 16.) lbs/9 kg			
BSU Power Brid		3.7 x 7	.1 x 2.5 in/9.5 x 18 x 6.3 c		5 lbs/0.7 kg			
MOUNTING (II	NSTALLATION)							
Base Station Unit			Pole Mount, 1.75–2.75 in dia.					
Subscriber Unit			Pole Mount, 1.25–1.75 in dia.					
WIND LOADIN								
Maximum oper			(112mph)					
Maximum survi	ivable wind spe	ed 90m/s	90m/s (200mph)					
WARRANTY								
1-year limited p								
Service Packs a	vailable for pric	ority technical assista	nce					



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

	MODEL	MODEL NUMBER	AGGREGATE THROUGHPUT	THRESHOLD (BER=1X10 ⁻⁶)	OUTPUT POWER			
Base Station Unit (BSU)	60 Mbps	301-40400-65C	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			
SYSTEM								
Operating Frequency Rang	e	5725-5825 MHz						
Radio Access Method		TDMA						
Duplexing		Time Division Duplex (TDD)						
Max Subscriber Units/BSU		1,023						
Distance/Capacity Limits (clear line of site/over the a	air)	60 Mbps at 4 miles/6.9 kilometers; 20 Mbps at 6 miles/10 kilometers						
Frequency Channels		4 non-overlapping, 6 available						
Regulatory Compliance		FCC Part 15.400 (U-NII); Industry Canada RSS210						
STANDARDS COMPLIANO	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 Connecte	or	Standard -N Female						
Standards Compliance		IEEE 802.1d Bridging Mode; IEEE 802.1q transparent VLAN tagging						
CONFIGURATION AND M								
Base Station Unit Configur		Via Ethernet						
Subscriber Unit Configurat	ion	Automatic						
Management		Via optional SNMP Toolkit (p/n 501-40400-ST)						
Security		Authentication, IP/MAC Filtering						
Software Upgrades		Over-the-air Subscrib	Over-the-air Subscriber Unit reprogramming; Downloadable Base Station Unit reprogramming					
POWER/ENVIRONMENT								
Electrical: Base Station Unit Subscriber Unit Base Station Unit Power Br Subscriber Unit Power Bricl		+48 Volts DC, 1 Am +28 Volts DC, 0.6 A 100–240 Volts AC, 110 or 220 Volts A	mps 50/60 Hz					
Operational Temperature		-25°–55° C (BSU and SU only)						
Humidity		5%–100%, condensing						
MTBF		Base Station Unit: 75,000 hours; Subscriber Unit: 100,000 hours						
FCC		Part 15/Class B						
PHYSICAL DIMENSIONS		SIZE (W x H x D)		WEIGHT				
SU (Outdoor Unit)		10.5 x 10.5 x 6.8 ir	n/26.5 x 26.5 x 17.4 cm	10 lbs/4.5 kg				
SU Power Brick (Indoor Un	it)	3.6 x 5.1 x 2.6 in/9		2.7 lbs/1.2 kg				
BSU (Outdoor Unit)			25.9 x 61 x 16.8 cm	20 lbs/9 kg				
BSU Power Brick (Indoor U		3.7 x 7.1 x 2.5 in/9	9.5 x 18 x 6.3 cm	1.5 lbs/0.7 kg				
MOUNTING (INSTALLATIO	ON)							
Base Station Unit Subscriber Unit		Pole Mount, 1.75– Pole Mount, 1.25–						
WIND LOADING								
Maximum operational wind		50m/s (112mph)						
Maximum survivable wind	speed	90m/s (200mph)						
WARRANTY								
1-year limited parts and lal								
Service Packs available for	priority technic	-al accistance						

Service Packs available for priority technical assistance

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