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** BSU and SU Models*



** SUI Model*

APPLICATIONS

- **Emergency First Responders**
  Critical information delivery such as medical data and video feeds during in-progress events
- **Enterprise Campus Connectivity**
  Extend main network to remote branch offices, warehouses or other out buildings without leased line
- **Mobile Hot Spot**
  On-demand entertainment and broadband access solutions for ferry, transit busses and railway system commuters
- **Security and Surveillance**
  Wireless solutions for bandwidth-intensive and high-definition IP-surveillance cameras located at important city and transportation infrastructure such as airports, bridges and trains
- **Business and Residential Last Mile Access**
  Competitive broadband service alternative to DSL or cable modems for residences and T1 or Ethernet for businesses
- **Metropolitan Area Networks**
  Secure and reliable connectivity between city buildings

PART NUMBERS

NORTH AMERICA REGION

Base Station Unit	
5054-BSU-US	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - USA/CAN PSU

Residential Subscriber Unit	
5054-RSU-US-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - USA/CAN PSU - w/15 dBi Window Antenna
5054-RSU-US-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - USA/CAN PSU - 5-pack

5-packs contain: RSU (5), Power Supply (5); No software, No documentation, No Antennas

Subscriber Units	
5054-SU-US	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - USA/CAN PSU

EUROPE AND MIDDLE EAST REGIONS

Base Station Unit	
5054-BSU-EU	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - Europe PSU
5054-BSU-UK	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - UK PSU

Residential Subscriber Unit	
5054-RSU-EU-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - Europe PSU - w/15 dBi Window Antenna
5054-RSU-UK-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - UK PSU - w/15 dBi Window Antenna

Residential Subscriber Unit 5-packs	
5054-RSU-EU-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - Europe PSU - 5-pack
5054-RSU-UK-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - UK PSU - 5-pack

5-packs contain: RSU (5), Power Supply (5); No software, No documentation; No antennas

Subscriber Units	
5054-SU-EU	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit, EU PSU
5054-SU-UK	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit, UK PSU
5054-SUI-EU	Tsunami MP.11 Model 5054 Indoor Subscriber Unit, EU PSU
5054-SUI-UK	Tsunami MP.11 Model 5054 Indoor Subscriber Unit, UK PSU
5054-SUI-WA-EU	Tsunami MP.11 Model 5054 Indoor Subscriber Unit with 15 dBi Window Antenna, EU PSU
5054-SUI-WA-UK	Tsunami MP.11 Model 5054 Indoor Subscriber Unit with 15 dBi Window Antenna, UK PSU

ASIA PACIFIC REGION

Base Station Unit	
5054-BSU-EU	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - Europe PSU
5054-BSU-UK	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - UK PSU
5054-BSU-AU	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - Australia PSU
5054-BSU-SK	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - South Korea PSU
5054-BSU-CN	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - China PSU
5054-BSU-US-WORLD	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit - US/CAN PSU - WORLD

PART NUMBERS (CONT'D)

ASIA PACIFIC REGION (CONT'D)

Residential Subscriber Unit

5054-RSU-EU-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - Europe PSU - w/15 dBi Window Antenna
5054-RSU-UK-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - UK PSU - w/15 dBi Window Antenna
5054-RSU-AU-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - Australia PSU - w/15 dBi Window Antenna
5054-RSU-SK-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - South Korea PSU - w/15 dBi Window Antenna
5054-RSU-CN-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - China PSU - w/15 dBi Window Antenna
5054-RSU-US-WORLD	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - US/CAN PSU - w/15 dBi Window Antenna - WORLD

Residential Subscriber Unit 5-packs

5054-RSU-AU-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - Australia PSU - 5-pack
5054-RSU-US-MP-WORLD	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - US/CAN PSU - 5-pack WORLD
5054-RSU-SK-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - South Korea PSU - 5-pack
5054-RSU-CN-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - China PSU - 5-pack
5054-RSU-EU-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - Europe PSU - 5-pack
5054-RSU-UK-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - UK PSU - 5-pack

5-packs contain: RSU (5), Power Supply (5); No software, No documentation; No antennas

Subscriber Units

5054-SU-EU	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - Europe PSU
5054-SU-UK	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - UK PSU
5054-SU-AU	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - Australia PSU
5054-SU-SK	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - South Korea PSU
5054-SU-CN	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - China PSU
5054-SU-US-WORLD	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - US/CAN PSU - WORLD
5054-SUI-EU	Tsunami MP.11 Model 5054 Indoor Subscriber Unit with 15 dBi Window Antenna, EU PSU
5054-SUI-UK	Tsunami MP.11 Model 5054 Indoor Subscriber Unit with 15 dBi Window Antenna, UK PSU
5054-SUI-WA-EU	Tsunami MP.11 Model 5054 Indoor Subscriber Unit with 15 dBi Window Antenna, EU PSU
5054-SUI-WA-UK	Tsunami MP.11 Model 5054 Indoor Subscriber Unit with 15 dBi Window Antenna, UK PSU

CARIBBEAN AND LATIN AMERICA REGION

Model 5054

Base Station Unit

5054-BSU-US	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit – USA/CAN PSU
5054-BSU-BR	Tsunami MP.11 Model 5054 (MP.11a) Base Station Unit – BRAZIL PSU

Residential Subscriber Unit

5054-RSU-US-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - USA/CAN PSU - w/12 dBi Window Antenna
5054-RSU-BR-WA	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - BRAZIL PSU - with 12 dBi Window Antenna
5054-RSU-US-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - USA/CAN PSU - 5-pack
5054-RSU-BR-MP	Tsunami MP.11 Model 5054 (MP.11a) Residential Subscriber Unit - BRAZIL PSU - 5-pack

5-packs contain: RSU (5), Power Supply (5); No software, No documentation, No Antennas

Subscriber Units

5054-SU-US	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - USA/CAN PSU
5054-SU-BR	Tsunami MP.11 Model 5054 (MP.11a) Subscriber Unit - BRAZIL PSU

PART NUMBERS (CONT'D)

UNIVERSAL

Accessories

5054-SURGE	Surge Arrestor 5 GHz - Standard-N Female to Female
848 274 171	20 ft Low Loss Antenna Cable St-N - Male-Male LMR 200
848 332 789	20 ft Low Loss Antenna Cable St-N - Male-Male LMR 400
5054-ULA400-50	50 ft Low Loss Antenna Cable St-N - Male-Male LMR 400
848 274 205	75 ft Low Loss Antenna Cable St-N - Male-Male LMR 400
69828	6 ft Low Loss Antenna Cable St-N - Male-Male LMR 600
5054-LMR600-50	50 ft Low Loss Antenna Cable St-N - Male-Male LMR 60

Model 5054 5 GHz Antennas

5054-WA-15-STN	15 dBi Window Antenna - St-N Female - 5.25 - 5.875 GHz
5054-PA-18	18 dBi Panel Antenna - St-N Female - 5.25 - 5.875 GHz
5054-PA-23	23 dBi Panel Antenna - St-N Female - 5.725 - 5.875 GHz
5054-OA-8	8 dBi Omni Directional Antenna - St-N Female - 5.47-5.850 GHz
5054-OA-10	10 dBi Omni Directional Antenna - St-N Female - 5.47-5.850 GHz
5054-SA120-14	14 dBi Sector Antenna - St-N Female - 5.25-5.850 GHz - 120 degrees
5054-SA60-17	17 dBi Sector Antenna - St-N Female - 5.25-5.850 GHz - 60 degrees

AE (IEEE 802.3af) Power Injectors

4312-XX	AE 3af 12 Port DC Injector
4306-XX	AE 3af 6 Port DC Injector
4301-XX	AE 3af 1 Port DC Injector

Outdoor Ethernet Cables

69819	25m outdoor, terminated CAT5 cable for MP.11 with three RJ-45 and one weather-proof Ethernet port cap
69820	50m outdoor, terminated CAT5 cable for MP.11 with three RJ-45 and one weather-proof Ethernet port cap
69821	75m outdoor, terminated CAT5 cable for MP.11 with three RJ-45 and one weather-proof Ethernet port cap

FREQUENCY RANGE AND CHANNELS

Unlicensed — 5 GHz Band

Americas (FCC): 5.25 to 5.35 GHz (3 channels)
Americas (FCC): 5.725 to 5.850 GHz (5 channels)
Europe (ETSI): 5.47 to 5.725 GHz (11 channels)

Licensed — 5 GHz Band (for the UK)

5.725 - 5.850 GHz supports 4 channels

RF MODULATION

OFDM (Orthogonal Frequency Division Multiplexing)

BPSK	6 and 9 Mbps
QPSK	12 and 18 Mbps
16-QAM	24 and 36 Mbps
64-QAM	48 and 54 Mbps

WIRELESS PROTOCOL

WORP (Wireless Outdoor Router Protocol)

OVER THE AIR DATA RATES

Model 5054: 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps

WIRED INTERFACE

Ethernet	Auto-sensing 10/100BASE-TX Ethernet
Antenna Connector for BSU and SU with Type-N Connector	Standard Type-N Male

NETWORK ARCHITECTURE TYPE

Infrastructure

RECEIVE SENSITIVITY

(BER=10-6)

Modulation	40 MHz Channels Turbo Mode	20 MHz Channels Standard Mode	10 MHz Channels Standard Mode	5 MHz Channels Standard Mode
64 QAM ¾	-66 dBm @ 108 Mbps	-69 dBm @ 54 Mbps	-72 dBm @ 36 Mbps	-75 dBm @ 18 Mbps
64 QAM ½	-68 dBm @ 96 Mbps	-72 dBm @ 48 Mbps	-75 dBm @ 24 Mbps	-78 dBm @ 12 Mbps
16 QAM ¾	-75 dBm @ 72 Mbps	-77 dBm @ 36 Mbps	-80 dBm @ 18 Mbps	-83 dBm @ 9 Mbps
16 QAM ½	-78 dBm @ 48 Mbps	-80 dBm @ 24 Mbps	-83 dBm @ 12 Mbps	-86 dBm @ 6 Mbps
QPSK ¾	-81 dBm @ 36 Mbps	-83 dBm @ 18 Mbps	-86 dBm @ 9 Mbps	-89 dBm @ 4.5 Mbps
QPSK ½	-83 dBm @ 24 Mbps	-86 dBm @ 12 Mbps	-89 dBm @ 6 Mbps	-92 dBm @ 3 Mbps
BPSK ¾	-84 dBm @ 18 Mbps	-87 dBm @ 9 Mbps	-90 dBm @ 4.5 Mbps	-93 dBm @ 2.25 Mbps
BPSK ½	-85 dBm @ 12 Mbps	-88 dBm @ 6 Mbps	-91 dBm @ 3 Mbps	-94 dBm @ 1.5 Mbps

AVAILABLE TRANSMIT POWER SETTINGS

Model 5054

5.25-5.35 GHz	16 dBm (max)
5.47-5.725 GHz	16 dBm (max)
5.725-5.850 GHz	16 dBm (max)

Attenuation Step Value 3dB, from 16 dBm

RANGE INFORMATION[1]	Model 5054	5.25-5.35 GHz	
		1.1 miles at peak performance (36Mbps mode) using SUs with external antennas 3 miles maximum (6Mbps mode) using SUs with external antennas	
		5.47-5.725 GHz	
		1.0 miles at peak performance (36Mbps mode) using SUs with external antennas 2.9 miles maximum (6Mbps mode) using SUs with external antennas	
		5.725-5.850 GHz	
		4.4 miles at peak performance (36Mbps mode) using SUs with external antennas 12.2 miles maximum (6Mbps mode) using SUs with external antennas	
COMPLIANCE AND STANDARDS	Safety	UL CSA IEC	60950, UL50 22.2 No. 60950-00 60950 3rd Ed (1999)
	Radio Approvals	USA	FCC 15.107, 15-109; 15-203-15.205, 15.207, 15.209; 15.247; 15.401-15.407
		Canada	RSS-102; RSS-210; ICES-003
		Europe (ETSI)	EN 301.893; EN 300.328; EN 301.489-1; EN 301.489-17; EN 300-440; EN50371
		ARIB	STD-T71, STD 33, STD
	EMI and Susceptibility (Class B)	USA Canada	FCC Part 15.107 ICES-00
SNMP COMPLIANCE	SNMPv1/v2 MIB-II Ethernet-like MIB Bridge MIB 802.3MAU 802.11 MIB Private MIB Orinoco MIB	RFC 1157 RFC 1213 RFC 1643 RFC 1493 RFC 2668	
AE (IEEE 802.3AF) POWER INJECTORS	AE 3af 12 Port DC Injector AE 3af 6 Port DC Injector AE 3af 1 Port DC Injector		
SECURITY	WORP provides critical feature support for secure long-range wireless deployments in unlicensed frequency spectrum. Filter based on packet information such as unicast/multicast/ broadcast MAC or IP Secure "over the air encryption" with WEP and AES Authentication via Radius Intracell blocking allows the BSU to act as the central policy enforcer for SU to SU communication		
STATUS LEDs	Three indicators on the top panel indicate power, wireless traffic, Ethernet traffic		
REMOTE CONFIGURATION SUPPORT	Telnet, HTTP, TFTP, and SNMPv1/ v2c		
LOCAL CONFIGURATION SUPPORT	RS-232 Serial port, DB9 Female		
DIMENSIONS	Unpackaged (BSU & SU)	8.46 x 6.89 x 1.57 in (215 x 175 x 40 mm)	
	Unpackaged (SUI)	7.8 x 4.75 x 1 in (198 x 121 x 25 mm)	
WEIGHT	Unpackaged (BSU & SU)	2.38 lbs (1.08 kg)	
	Unpackaged (SUI)	0.65 lbs (0.29 kg)	
ENVIRONMENTAL	Operating	0° to 55°C, 5-95% humidity non-condensin @ 5° to 55°C	
	Storage	-20° to 75°C, 5-95% humidity non-condensing @ 5° to 75°C	
SYSTEM PROCESSOR AND MEMORY	166MHz Motorola 8241 processor 16 Mbytes RAM 8 Mbytes FLASH		

[1] Assumptions for Model 5054 Range Calculation
- PMP configuration using USA regulations for L and U bands, ETSI regulations for M bands
- Clear LOS
- Sector antenna (17dBi, 60-degrees) at BSU with short 1dB jumper cable
- 3' parabolic dish (31.4dBi) with short 1dB jumper cable for SUs with external antennas
- Fade margin minimum of 10dB to 2 miles, 0.2dB additional fade margin for every 0.1 mile to 15dB

SOFTWARE SPECIFICATION	Base Station and Subscriber Units	Key Features
		WORP protocol Dynamic Data Rate Selection Transmit Power Control Antenna Alignment Integrity Check for Software Upload Mobility with Auto-scanning QoS Support; Up to 8 classes of service, up to 8 service flows per class[2]
		Satellite Density
		Enhanced Dynamic Frequency Selection
		Redundancy
		Spanning Tree (802.1D)
		Bridging and Routing
		Bridge (802.1d) IP/RIPv1 (RFC 1058) IP/RIPv2(RFC 1388) CIDR (RFC 1519) ICMP (RFC 792) IP (RFC 791) ARP (RFC 826)
		Filtering
		Ethernet protocol (Ethertype) Static MAC Storm threshold IP address Broadcast protocol
		Services
		DHCP Server (RFC 2131) DHCP Client (RFC 2131) Bi-Directional Bandwidth Control
		Management
		SNMPv1/v2c (RFC 1157) SNMPv2c RFC 1907) HTTP Server (RFC 2616) Telnet Server (RFC 855) Temperature Logging TFTP Client (RFC 783) SU/BSU statistics Link test Remote reboot or reset to factory default via Power Injector
		Security Features
		MAC Authentication Radius MAC Access Control WEP/AES-OCB encryption RADIUS (RFC 2138)
		Mobility
		Subscriber Unit Roaming
	Base Station Unit	Filtering
		Intra Cell Blocking
	Subscriber Unit	Services
		NAT (RFC 3022) DHCP Relay (RFC 2131
INPUT POWER REQUIREMENTS	Wall Mount Unit (included)	Input: 100 to 240 VAC, 0.4 Watts Output: 12VDC, 1.5
	Power over Ethernet	802.3af compliant[3] Requires Proxim AE 3af Power Injector or other 802.3af device Input: Voltage 42 to 60 VDC Output: Current 200mA at 48V
	Power Consumption	Maximum 10 Watt
ANTENNA ALIGNMENT TOOLS	CLI output	

[2]Available with version 2.5 software release
[3]IEEE 802.3af is not included for RSU. Power injector is sold separately.

PACKAGING CONTENTS	Base Station (BSU) and Subscriber Unit (SU) One Tsunami MP.11 Model 5054 Base Station or (Residential) Subscriber Unit One metal base for ceiling/ desk mounting One wall-mount power supply One country specific power cord One Documentation and Software CD-ROM *Note: Residential Subscriber unit includes 15 dBi Window Antenna Subscriber Unit (SUI) One Tsunami MP.11 5054-SUI Subscriber Unit One pigtail adapter cable with N-Male connector One Mounting bracket One power supply and support for IEEE 802.3af CD-ROM with Software and Documentation *Note: 5054-SUI-WA version includes 15 dBi Window Antenna
MTBF	150,000 hrs
WARRANTY	One year

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For detailed technical specifications, please go to **http://www.proxim.com/products/bwa/multipoint/mp11**

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