STRATUM™

Stratum MP Multipoint Bridge

The Most Scalable, Highest Performing Solution for Wireless Infrastructure

- *Efficient radio protocol delivers 9 Mbps actual throughput*
- *True multipoint polling includes access priority settings*
- *Patented RF technique allows dense multicell deployments*
- *Military grade security protects against interception*
- *Unique ISP privacy mode*

World's Fastest 2.4 GHz Wirefree Bridge

Connect more customers with the Stratum MP Multipoint Bridge. Proxim's patented media access protocol allows Stratum MP to realize an average Ethernet throughput speed above 9 Mbps for all packet sizes, nearly twice the 5 Mbps average achieved by other direct sequence solutions. Higher throughput speeds, faster file transfers and better network performance support more active customers on each network segment.

Designed for Wireless Internet Service Providers

While capable of the highest speed operation for point-to-point applications, Stratum MP also excels for building wireless multipoint services infrastructure. Point-to-multipoint configuration is a snap to set up from the web browser interface simply by choosing whether the unit is to be a hub or client. Clients can be given priority settings allowing you to provide facilities with heavy traffic loads greater network access than facilities with light loads. A unique "ISP privacy mode" allows blocking of client-to-client bridging to prevent customers from "seeing" each others' network settings within a public services network.

Patented RF Technique Allows Denser Multicell Deployment

Unlike other solutions developed for indoor applications and marketed as outdoor wireless bridges, Stratum MP is designed specifically for multipoint outdoor applications. Utilizing a patented RF coding technique, Stratum MP allows you to deploy multiple cells more tightly than other direct sequence solutions without impacting performance. Now, you no longer need to trade off throughput performance against cellular infrastructure density.

Military-grade Security Protects Your Network Traffic

With Stratum MP, security is designed into the radio transmission protocol to protect your network traffic. Stratum MP implements highly secret and secure RF coding techniques to prevent interception of transmissions by unauthorized listening devices. This same technique also provides a strong defense against denial of service attacks which could take your network off the air. From a password protected user interface, the network administrator can control the security code setting for all nodes within each multipoint cell.

Count on the Experience of a Wirefree Leader

Unlike vendors with little wirefree experience, Proxim knows each network is different. Trust the company with over 10 years commitment to wirefree networking to help you with design, installation or troubleshooting should you need it. Our wirefree network team is available to help develop the right solution for you. Whether selecting the right antenna for your site, setting up an outdoor installation or bridging multiple buildings on your campus through wireless, Proxim offers the experience and solutions you need.

System

Ethernet Architecture	Transparent bridge
Radio Data Rate	10 Mbps, half duplex
Network Topologies	Point-to-Point for linear topologies
	Point-to-Multipoint for cellular topologies
Number of Nodes per Cell	32
Range (Line-of-Sight	12 miles (FCC rules)
with high gain antennas)	5 km (ETSI rules)
Bandwidth Management	Configure maximum packets to send from each node per polling cycle
ISP Privacy Mode	Disable multipoint client-to-client bridging
Link Security & Cell Isolation	Transec: 64,000 code channels with continuously changing codes
Throughput Quality	Packet re-transmission with Forward Error Correction coding for missing or errored packets

Ethernet

Physical Layer Connection	10BaseT, half duplex setting, RJ-45 connector
Ethernet Frame Types	IEEE 802.3, Ethernet II
Learning Bridge Addresses	Up to 2000 MAC addresses supported per network segment

Network Management

Remote Access	In-band via HTTP
Parameters	Configuration, Performance
Firmware Upgrade	Flash downloadable in the field
Configuration Security	Password authentication

Approvals

FCC	Part 15, subpart B, class B digital device; Part 15.247
ETSI	ETS 300-328
Safety	UL-CUL, EN-60950, CE Mark

Radio

Frequency Band	2400-2483.5 MHz. Frequency selections vary by country.
Radio Type	Direct Sequence Spread Spectrum
Modulation	Continuous Phase Modulation
Frequency Channels	11 channel selections
Transmit Power	+12 dBm (models 2002 & 2003), 0 dBm (model 2001)
Receiver Sensitivity	-81 dBm

Environmental

Temperature	-15 to +40 degrees C (operational)
	-50 to +80 degrees C (storage)
Humidity	(non-condensing) 10 to 90% typical

General

Weight	1.5 lbs (0.7 kg)
Size	1.66" H x 6.54" L x 8.54" W
	(42 mm x 166 mm x 217mm)
External Power Supply Options	100 to 120 VAC (50/60 Hz) to 6 VDC @ 2A;
	200 to 240 VAC (50/60 Hz) to 6 VDC @ 2A
Antenna Connectors	Two, RP-TNC (pin)
LED Indicators	Power, Network Activity and RF Activity
Warranty	1 year parts & labor (return to factory)
Shipping Configuration	Stratum MP, power supply with country specific power cord and User's Guide.

Ordering Information

2001	0 dBm, all channels
2002	+12 dBm, all channels
2003	+12 dBm, selected channels

Contact Information

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7680-0105 Rev. A 11/00

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