

# Ascend

## Ascend MAX 4048 Vs. Livingston PortMaster 3

### Product Description: Livingston PortMaster 3

The PortMaster 3 is an integrated Network Access Server which consolidates analog, ISDN BRI and ISDN Primary Rate Interface (PRI) T1 or E1. The product began shipping in fall of 1996, and is sold with Livingston's centralized management software. It is a two T-1 box with a capacity to support 46 concurrent sessions.

### Modem Port Price Comparison

Livingston PM3	Ascend MAX™ 4048
\$639 (48 modem config)	\$550

Livingston PM3 Weakness	Ascend MAX 4048 Advantages
<p>Not a scalable solution</p> <ul style="list-style-type: none"> <li>• Low end products only</li> <li>• No Multilink Protocol Plus, or MultiChassis MPP</li> </ul>	<ul style="list-style-type: none"> <li>• Full line of access concentrator solutions including high-density, carrier-class products</li> <li>• MP+ and MultiChassis MP/MP+ support; MAX Stack maximizes bandwidth availability by enabling multiple MAX WAN access switches to function together as one logical switch for MP and MP+ calls</li> </ul>
No STAC compression (promised for future releases)	Ascend's customer base has full hardware compression capability
Limited reliability —no redundant power supply	Redundant power supply and full NEBS compliancy
<p>Limited security features</p> <ul style="list-style-type: none"> <li>• No integrated, dynamic firewall capability</li> <li>• New, limited RADIUS capability; no extensions</li> </ul>	<ul style="list-style-type: none"> <li>• Low-cost, single-vendor security solutions with dynamic, integrated firewall capability</li> <li>• Most comprehensive set of security features including extended RADIUS dictionary (over 120 enhancements)</li> </ul>
No NFAS, therefore can support a maximum of 46 simultaneous digital sessions with two PRIs	Supports up to 48 simultaneous sessions with two PRIs



## Product Comparison

Feature	MAX 4048	Livingston PortMaster 3
List Price Per Port/Density		
• Modem configuration/box	48	48**
• Price/modem@48 modems	\$550	\$639
		(**46 concurrent sessions)
WAN Connectivity/Bandwidth Management		
• T1	Yes	Yes
• V.34	Yes	Yes
• ISDN PRI	Yes	Yes
• PPP	Yes	Yes
• Hybrid Access™ Option	Yes	NO
• Frame Relay Option	Yes	Future
• MP	Yes	Yes
• MP+	Yes	NO
• MultiChassis MP	Yes	Yes
• MultiChassis MP+	Yes	NO
• Hardware Data Compression	Yes	Future
• IP Multicast	Yes	NO
Security		
• PAP/CHAP	Yes	Yes
• Dynamic Firewall	Yes	NO
• RADIUS	Yes	Yes
• Extended RADIUS	Yes	NO
• Integrated Firewall	Yes	NO
• VPN Tunneling support	Yes	NO
Management and Control		
• Full SNMP MIB Support	Yes	Yes
• Client Software	Yes	Yes
• Modem Round-Robin Allocation	Yes	NO
• GUI configurator	Yes	Yes
Routed Protocol Support		
• IP	Yes	Yes
• IPX	Yes	Yes
• AppleTalk	Yes	NO

**Worldwide and North American Headquarters**  
 One Ascend Plaza  
 1701 Harbor Bay Parkway  
 Alameda, CA 94502, United States  
 Tel: 510.769.6001  
 Fax: 510.747.2300  
 North American E-mail:  
 info@ascend.com  
 International E-mail:  
 air-info@ascend.com  
 Toll Free: 800.621.9578  
 Fax Server: 415.688.4343  
 Web Site: <http://www.ascend.com>

**European Headquarters**  
 Rosemount House  
 Rosemount Avenue  
 West Byfleet  
 Surrey KT14 6NP, United Kingdom  
 Tel: +44 (0) 1932.350.115  
 Fax: +44 (0) 1932.350.199

**Japan Headquarters**  
 Level 19 Shinjuku Daiichi-Seimei Bldg.  
 2-7-1 Nishi-Shinjuku  
 Shinjuku-ku, Tokyo 163-07, Japan  
 Tel: +81.3.5325.7397  
 Fax: +81.3.5325.7399  
 Web Site: <http://www.ascend.co.jp>

**Asia-Pacific Headquarters**  
 Suite 1419, Central Building  
 1 Pedder Street  
 Central, Hong Kong  
 Tel: +852.2844.7600  
 Fax: +852.2810.0298

**Latin, South America and the Caribbean Headquarters**  
 One Ascend Plaza  
 1701 Harbor Bay Parkway  
 Alameda, CA 94502, United States  
 Tel: 510.769.6001  
 Fax: 510.747.2669

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