

IA 1100/1200: Internet Appliance Switches



Service Provider Requirements

- Compact, scalable application delivery platform for content provider and application service providers
- Improve Delivery of site content and provide seamless completion of e-commerce transactions
- Perform comprehensive "aliveness checking" by checking server connection, application server connection, application content and backend server connectivity
- Enable bandwidth management, traffic aggregation and application control
- Increase security and restrict unauthorized or undesirable access to the servers

Overview

Designed for high performance hosting environments, Riverstone Networks' IA 1100 and 1200 provide line rate device load balancing, traffic load balancing and traffic policing. With the exponential growth of traffic on the Internet, the IA family ensures that visitors to an Internet site are able to complete their transaction seamlessly—whether downloading information, buying products or upgrading account status. The Riverstone Networks IA family offers customers a unique combination of security, reliability, control and performance.

Customer Challenges & IA 1100/1200 Solutions

Challenge	Solution
Increase server availability by reducing the possibility of server failures	By distributing session requests across multiple content servers, the IA guarantees timely responses to queries. Through Comprehensive Server Checking (CSC), the IA guarantees that the requests are sent to servers that are working properly
Ensure seamless content delivery on high volume sites	Using Intrinsic Persistence Checking (IPC) techniques, the IA is able to ensure that the customer is sent to the correct server regardless of where the customer is coming from, such as a mega-proxy. The IA is able to maintain high-speed performance even with IPC features enabled
Ensure maximum uptime of high volume sites	Utilizing standards-based VRRP redundancy protocols, the IA is able to maintain consistent connections to the servers
Secure and limit access to the servers without reducing performance	Apply traffic filters, Network Address Translation (NAT) and more, all at wire-speed as well as Default Deny
Provide complete, detailed network management information	Imbedded SNMP agent and full RMON 1 and 2 statistics give complete control of the environment



IA 1100/1200: Technical Specifications

Features

Protocols Load Balanced

TCP, UDP and raw IP (VPN traffic)

Load Balance Algorithms

Round Robin
Weighted Round Robin
Least Load
Fastest Response

Intrinsic Persistence Checking

Sticky Ports
Simple Source IP
Source IP Netmask
VPN Persistence

Comprehensive Server Checking

Ping for Server Connection
Application Check
Application Content Check
Front and Backend Server Checks

Extensive Management

- Wire-speed Full RMON/RMON2
- SNMP manageable
- Telnet Client
- RS-232 (Out-of-band Management)
- Command Line Interface (CLI)

Technical Specifications

Physical

Dimensions 2.8" H x 17" W x 18.5" D (7.1cm x 43.2cm x 47cm)
Weight 20.0 lbs. (9 kg)

Environmental Specifications

Operating Temperature +5° to +40°C (41° to 104°F)
Non-Operating Temperature -30° to +73°C (-22° to 164°F)
Operating Humidity 15% to 90% (non-condensing)
Power Consumption 100 - 125 VAC, 2A max, or 200 - 250 VAC, 1A max 50 - 60 Hz

Safety

Meets the requirements of UL1950, CSA C22.2 No. 950, EN60950, IEC950 and 73/23/EEC.

Electromagnetic Compatibility (EMC)

Compliant with the requirements of FCC Part 15, CSA C108.8, EN555022, VCCI V-3/93.01, EN50082-1 and 89/336/EEC.

Standards Supported

RFCs/MIBs

IP Routing: RIPv1/v2, OSPF, BGP-4
QoS: Application level
IEEE 802.1p
IEEE 802.1Q
IEEE 802.1d Spanning Tree
IEEE 802.3
IEEE 802.3u
IEEE 802.3x
IEEE 802.3z
RFC 1213 MIB-2
RFC 1493 Bridge MIB
RFC 1573 Interfaces MIB
RFC 1643 Ethernet like Interface MIB
RFC 1058 RIP v1
RFC 1723 RIP v2
RFC 1724 RIP v2 MIB
RFC 1583 OSPF v2
RFC 1253 OSPF v2 MIB
RFC 1812 Router Requirements
RFC 2096 IP Forwarding MIB
RFC 1349 Type of Service in the IP Suite
RFC 1519 CIDR
RFC 2338 VRRP
RFC 1483 LSNAT
RFC 2618 Radius-Auth-Client-MIB
RFC 1157 SNMP
RFC 1757 RMON 1
RFC 2021 RMON 2
RFC 2068 HTTP
RFC 1573 Interface MIB

Ordering Information

Part No. Product Description

IA-1100 Internet Appliance with 24 10/100 ports, 2 Gig SX ports
IA-1200 Internet Appliance with 8 Gig SX ports

For complete ordering information, including specific modules, contact your Riverstone representative at **(408) 878-6500**. You may also visit our Website at www.riverstonenet.com



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