

7100 Routing Switch

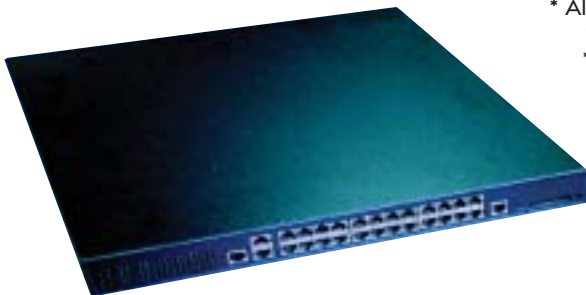
Description

Proscend 7100 Routing Switch presents a multi-service solution which comes with twenty-four 10/100BASE-T Fast Ethernet LAN ports, two 10/100/1000BASE-T Gigabit Ethernet copper ports for internal servers or high performance user connections, one 10/100BASE-T Fast Ethernet WAN port and any LAN or Gigabit Ethernet port can be configured as a second WAN port for backup. Comprehensive features like VLAN, Policy-based QoS, Firewall, IPSEC VPN and 802.1x, mac-based & web redirection authentication are supported for demands of broadband and internet connections.

32-bit hardware expansion slot and compact flash card slot are for future expansions like optional T1/E1 WAN card, network storage, IP-PBX and so on to protect current system investment. Feature-rich designs make Proscend 7100 Routing Switch not just an Ethernet Switch neither just a Broadband Router!

Features

- * All-in-one network solution to handle wired and wireless LAN and WAN access traffic seamlessly
- * High-performance switch engine with full VLAN features
- * Optional 802.11af (PoE) support on all 24 LAN ports
- * Policy-based QoS to optimize the performance of different classes of traffic such as VoIP and VoD
- * Stateful inspection firewall and NAT/PAT to protect the network from hostile intrusion
- * IPSEC VPN with DES3 and AES encryption compatible with most popular VPN clients
- * 802.1x, mac-based and web redirection authentication methods working with either remote radius servers or local user database
- * Web, CLI or SNMP network management
- * Remote software upgrades
- * Hardware expansion slot to add optional WAN cards or storage extension
- * Compact flash card for system configuration backup and enhanced software features





Specification

7100 Routing Switch

Network Interface

- **LAN Ethernet Ports**
24 IEEE 802.3 10/100BaseT Fast Ethernet ports (RJ-45)
Auto negotiation for the rate, duplex and polarity
Optional IEEE 802.3af Power over Ethernet
- **Gigabit Ethernet Ports**
Two 10/100/1000BaseT copper ports (RJ-45)
Auto negotiation for rate, duplex and polarity
- **WAN Ethernet Port**
One IEEE 802.3 10/100BaseT Fast Ethernet port (RJ-45)
Auto negotiation for rate, duplex and polarity any LAN or Gigabit Ethernet port can be configured as a second WAN port for backup

Bridging/Switching/VLAN

IEEE 802.1d spanning tree
Support up to 4096 MAC learning addresses
Port-based VLAN
Support 4096 802.1Q VLAN ids
MAC address filter

Routing

Layer 3 routing between interfaces and VLAN groups
Dynamic routing protocol : RIP and OSPF
NAT/PAT supports multi-user sharing of WAN link
NAT/PAT support VPN pass through
IP address/protocol filter

IP Address Management

DHCP server with multiple IP pools
DHCP relay
Multiple IP subnets with NAT enable/disable

WAN Protocol

IEEE 802.3 Protocol (Ethernet)
PPP over Ethernet (PPPoE) client
Static IP or dynamic DHCP client

Traffic Management

Layer 2
Rate control on both ingress/egress directions in all switch ports (64K to 100Mbps, per 64K increment)
QOS support 4 priority queues based on :
802.1p tag, IPv4 TOS/DiffServ, port ID, 802.1Q
VLAN id and destination or source MAC address

Layer 3

Policy-based profile for traffic classification
Maximum bandwidth shaping and minimum bandwidth reservation for each class of traffic
Support 8 levels of Priority Queues

Firewall Control

Denial of service protection
Policy-based access control list
Intrusion detection

VPN

IPSEC tunnel mode and IPSEC with L2TP
Support 32 IPSEC sessions
Support IKE main and aggressive mode
Encryption : 3DES and AES
Support PSK and X.509 certificate
Support MD5 and SHA authentication

Authentication

802.1x authentication
EAP-MD5, EAP-PEAP, EAP-TLS and EAP-TTLS
MAC authentication
RADIUS authentication and accounting
Local user database
Web redirection authentication (HTTP/HTTPS)

Network Management

Web-based manager (HTTP/HTTPS)
CLI through telnet, SSH and console port
SNMP v3 : MIB II, Bridge MIB , SNMP traps
System event log
Multiple levels of administration privilege
Support FTP and TFTP upgrade

Status LED

POWER, DIAG, CF, PoE
WAN Ethernet: Link,100M,10M,Duplex
LAN Ethernet: Link/ACT, 100M
Gigabit Ethernet : Link/ACT, 1000M, 100M, Duplex

Hardware

32 bit hardware expansion slot
Compact flash card slot for system backup and extension
RS232 RJ45 console port
Manufacture default reset switch

Physical and Operating Environment

Dimensions: 19" (w) x 10" (d) x 1.75" (h)
Weight: 10 lb (estimated)
Operating temperature: 0°C to 45°C (32°F to 113°F)
Storage temperature: -40°C to 70°C (-40°F to 158°F)
Operating humidity: 10% to 95% non-condensing
Storage humidity: 10% to 95% non-condensing

AC Power Requirement

Input: 100-240VAC, 50-60 Hz, 40W Max (Non PoE model)
Input: 100-240VAC, 50-60 Hz, 350W Max (PoE model)

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