

## **Proscend Communications Proudly Announces The Availability of 7100 Series Routing Switch**

**HSINCHU, TAIWAN – August 15<sup>th</sup>, 2005** - Proscend Communications proudly announces today the availability of 7100 Series Routing Switch. Proscend 7100 Series 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 Series Routing Switch not just an Ethernet Switch neither just a Broadband Router!” said Eric In, Marketing & Sales Director of Proscend Communications.

### **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 802.3af (PoE) support on all 24 LAN ports, support legacy or 802.3af devices, support AC disconnect, maximum total PoE power 200W
- ✧ 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**

#### **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 (Model No.: 7110)

## ***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



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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



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### **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, Model No.: 7100)

Input: 100-240VAC, 50-60 Hz, 240W Max (PoE model, Model No.: 7110)

### **Availability**

The 7100 Series Routing Switch of Proscend Communications are now in production. For sample evaluation, please contact Eric In at [ericin@proscend.com](mailto:ericin@proscend.com).

### **About Proscend Communications**

Proscend Communications Inc. is one of leading suppliers of data communication and networking solutions for enterprise users, located at Hsinchu Science Park, Hsinchu, Taiwan, R.O.C. 300. World Wide Web site:

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