*Clear*Width

BENEFITS

- Reduced Network Downtime
- Affordable for Any Size Company
- No Constant Hardware Upgrades
- Painless for Network Staff

KEY FEATURES

- DDoS and Network Attack Protection
- Network Visibility via NetFlow
- No Complex Configuration Required
- Fully-Operational in Minutes
- No Performance Degradation—Ever
- One Device Scales to Gigabit Speeds
- Industry's First Green Solution

ClearWidth Protector is the industry's first affordable high-performance network security appliance that delivers DDoS attack protection, secure network access and network visibility in a single, easy-to-use solution.

 uses patented technology to address the needs of networks that are challenged by the price and complexity of current attack protection solutions. Protector scales up to Gigabit speeds—no constant hardware upgrades required. Smaller organizations can now protect against today's alarming rate of network downtime, revenue loss and reduced employee productivity. Protector is also ideal for service providers seeking a premise-based solution.

NO MORE EXPOSURE

Your company no longer has to be concerned with:

- Network outages due to DDoS attacks—external and internal
- The high-cost and complexity in protecting against attacks
- The lack of attack protection in router, firewall and intrusion detection

ClearWidth Protector is designed to reduce the complexity of network attack protection while being affordable for any size company or location.

MULTI-FUNCTION OPERATION

Attack prevention is done by inspecting each data packet entering a network and determining whether a vulnerability probe or an actual attack is in progress and react to it instantly.

Secure network access is done through a Gigabit-speed firewall that permits or blocks traffic by network, address or user.

Network visibility is done using industry-standard NetFlow and is compatible with all NetFlow collector software applications.

Additionally, Protector comes with an assortment of network features to enable optimal network placement and use.

ONE DEVICE FOR ALL NETWORKS

Industry practice is to offer a large array of increasingly-costlier appliances to support larger network sizes and capacity.

Protector is the only solution that eliminates the need for constant hardware upgrades. One device scales to Gigabit speeds. Protector is designed to grow with your network.

NO HIDDEN COSTS

Protector includes all you need in one price. No additional costs for: software options, types of network interfaces or number of supported users.

NO PERFORMANCE DEGRADATION

ClearWidth's patented technology enables Protector to operate at its specified performance independent of traffic type, packet type and packet size. This means one performance specification — period. All other solutions degrade as packet sizes shrink — the growing trend in today's network applications.

Protector performance is also measured under real-world conditions: fully-configured and at small data packet sizes.

The result is no performance degradation — whether at initial deployment or during ongoing configuration changes.

Competitive solutions measure performance with large packets and zero configuration—hardly real-world conditions.

USE AT THE WAN AND IN THE LAN

Server slowdowns and employee-launched attacks can now be detected and eliminated — a costly luxury previously only available to the largest organizations.

Protector's Gigabit speed enables its use beyond the network edge to deep inside the LAN.

INSTALLS IN MINUTES

Protector easily installs into any network in minutes. Transparent mode operation makes Protector fit inline into a network without router configuration. Protector's default configuration requires only a single IP addresses for remote management.

OUT-OF-BOX PROTECTION

Once installed, Protector immediately begins protecting your network — no additional or complex configuration needed.

GREEN SOLUTION SAVINGS

Protector is the industry's first, and only, green network appliance. Consuming an unprecedented 15 watts of power, Protector significantly reduce energy costs — compare to similar-priced (200 Watts) or similar-performing (800 Watts) products.

Features

ATTACK PREVENTION
Attack Reconnaissance Deterrence
- IP Option Anomalies
- TCP Control Bit Anomalies
- ICMP Anomalies

Network Attacks
- Popular-Attack Mitigation
- Protocol Rate-Limit Control

DoS and DDoS Attack Identification & Mitigation
- SYN, FIN, ICMP, UDP, Floods
- Session, TCP Reject Floods

Trojan Horse Attack Identification & Mitigation

SYN Flood Mitigation

NETWORK VISIBILITY
NetFlow Export
- NetFlow V5, V9
- Configurable Bandwidth and Sample
- Export by Time, Match
- TopTalkers

NetFlow Collector/Analyzer Compatibility
- Any Third-Party Software Application
- Any Network Vendor Software/Appliance
- Any Open Source Software Application

FIREWALL
Stateful packet inspection
Access control lists
Port, protocol, IP address, time schedule
Security Zones
Policy Management

NETWORK PLACEMENT
At the Network Edge
- Behind or In-Front of Internet Access Router

Inside the LAN
- Behind or In-Front of Any Switch

NETWORK PLACEMENT
Inline
Passive (One-Arm) Monitoring

OPERATING MODES
Transparent (Layer 2)
Route, NAT (Layer 3)

NETWORKING
802.1q VLANs
Static Routes
Dynamic Routing
PPPoE
DHCP Relay
NTP

LOGGING
Syslog

MANAGEMENT
Command Line Interface (CLI)
   Serial, SSHv2, Telnet
Browser User Interface (GUI)
   HTTP and HTTPS

Specifications

PERFORMANCE
Total Throughput (Large Packets)	4Gbps
Total Throughput (Small Packets)	4Gbps
Max Concurrent Sessions (Flows)	192,000
Session (Flow) Creation Rate	16,000/sec

CAPACITY
Firewall Policies	500
Number of Users	Unlimited

PORT CONFIGURATION
Protector
Network Type	RJ-45 Based Ethernet
Serial Port	1 x 10/100/1000BaseT
Data Ports	1 x 10/100/1000BaseT
Hardware Bypass	Power, Software, Manual

Protector SFP*
Network Type	Fiber-Based Ethernet
Serial Port	1 x 10/100/1000BaseT
	1 x SFP
Data Ports	2 x SFP
Hardware Bypass	Software, Manual

*Requires separate SFP transceivers

POWER CONSUMPTION
Max Power Consumption: 15 Watts

HARDWARE
Chassis
   Small Form Factor
Dimensions (W/L/H)
   5" x 10" x 1.5" (12.7cm x 27.2cm x 3.8cm)
Weight
   2 lbs (0.9 kg)
Power
   100 to 240 VAC, 50-60 Hz

ENVIRONMENTAL
Temperature
Operational:	32° to 113° F (0° to 45° C)	
Storage:	-13° to 158° F (-25° to 70° C)	
Humidity:	5%-90%, Non-Condensing	

SAFETY, REGULATORY, COMPLIANCE
Safety Compliance
   EN 60950-1, UL 60950-1, TUV, CE
EMC Compliance
   FCC Class A, VCCI Class A, C-Tick, CN55024, KN22, KN24
Lead-Free
   EU Directive 2002/95/EC (ROHS)
MTBF
   >100,000 Hours

ORDERING INFORMATION
Protector
   P/N: FLOO-300R-00
Protector SFP
   P/N: FLOO-300S-00

Support and maintenance agreements are available through authorized resellers or by contacting ClearWidth.
Technical support available through an authorized reseller or through ClearWidth Technical Support online at clearwidth.com/support.

ClearWidth Protector

ClearWidth Protector SFP

PROTECTOR SPEC HIGHLIGHTS
- Up to 4Gbps throughput
  - Fully-configured
- No performance degradation
  - Large and small packet sizes
  - Optimized for video
- 15 Watts power consumption
  - Compared to 200-800 Watts
- Transparent mode
  - Inline operation
  - No routing configuration
  - Instant operation
- Operational in minutes
  - Just one IP address required
  - Connect to switch or router
  - Immediate attack prevention
- Two configurations available
  - RJ45
  - SFP (for fiber connectivity)
- Small form factor
  - No rack required

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