

#### BENEFITS

- Clear VoIP and Video Quality
- Maximized Application Performance
- Reduced Network Costs
- Simplified Network Operations
- Satisfied Network Users

#### APPLICATIONS

- Identify & Address Bandwidth Abuse
- Prioritize Business-Critical Apps
- Maintain Network Peak Performance

#### KEY FEATURES

- Multi-Function Operation
- Gigabit Speed at Megabit Prices
- No Hidden Equipment Costs
- No Performance Degradation—Ever
- Use at the WAN and in the LAN
- Fully-Operational in Minutes
- Industry's First Green Solution

ClearWidth Optimizer is a high-performance, low-cost, multi-function network appliance that delivers network visibility and optimization all in a single solution. Optimizer enables organizations of all sizes to keep their networks running at peak efficiency by providing instant visibility and control over traffic — whether at the network edge or, uniquely, within the LAN.

ClearWidth appliances use patented technology to meet critical performance needs unachievable by today's current class of appliances. Optimizer allows organizations and service providers to manage today's explosive amount of non-essential traffic and deliver an unparalleled user-experience for real-time applications (voice, video, cloud apps and SaaS) as well as traditional applications (Web browsing, e-mail).

#### NO MORE COMPROMISE

Networks today no longer have to suffer:

- Relying on routers for network performance management — and the performance degradation from enabling these features
- Multiple, expensive solutions to implement these critical features
- The constant upgrade of network appliances to accommodate growing network needs
- The complexity of configuring and maintaining disparate solutions — even from the same vendor
- And the ability to use these features within the LAN

Optimizer adds, offloads or replaces any existing solutions that prevents these features from being turned on — at an astonishingly low-price.

#### MULTI-FUNCTION OPERATION

Optimizer delivers network visibility and optimization in a single solution. Network visibility is done using industry-standard NetFlow. Network optimization is done through the shaping of traffic by port, address, connection rate and user. Along with these comes the standard assortment of network features.

#### GIGABIT SPEED AT MEGABIT PRICES

Industry practice is to offer a large array of appliances — each one costing increasingly more — to support larger network sizes and capacity.

Optimizer is the only solution that eliminates the need for constant hardware upgrades. Optimizer grows with your network.

#### NO HIDDEN COSTS

Also contrary to industry practice, Optimizer includes all you need in one price — no additional costs for: network speed, capacity, software options, types of network interfaces or number of users.

#### NO PERFORMANCE DEGRADATION

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

Optimizer 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 IN THE LAN

Optimizer's Gigabit speed enables its use beyond the network edge to deep inside the LAN — where visibility has always been ignored.

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

#### FULLY OPERATIONAL IN MINUTES

Optimizer easily installs into any network in minutes. Transparent mode operation makes Optimizer fit inline into a network without router configuration. Its default configuration requires only two IP addresses to begin capturing network visibility. And policy-based management simplifies the task of managing the complexities of any network.

#### GREEN SOLUTION SAVINGS

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

## Features

### NETWORK VISIBILITY

#### NetFlow Export

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

#### NetFlow Collector/Analyzer Compatibility

- Any Third-Party Software Application
- Any Network Vendor Software/Appliance
- Any Open Source Software Application

### NETWORK OPTIMIZATION

#### Bandwidth Management

- By Application, Port, Network, Host and User
- Prioritize, Limit and Block

#### Quality of Service

- DSCP and TOS Marking

### DEEP PACKET INSPECTION

#### Pre-Defined Application Signatures

#### Custom Signatures (Run-Time Configurable)

- Port, Port-Range Matching
- Pattern Matching (Hex, ASCII)
- Boolean Operation

### NETWORK PLACEMENT

#### At the Network Edge

- Behind Internet Access Router

#### Inside the LAN

- Behind Any Switch

### NETWORK PLACEMENT

#### Inline

#### Passive (One-Arm) Monitoring

### OPERATING MODES

#### Transparent (Layer 2)

#### Route, NAT (Layer 3)

### NETWORKING

#### 802.1q VLANs: 40

#### Static Routes: 32

#### Dynamic Routing: RIP v1/v2

#### PPPoE

#### DHCP Relay

#### NTP

### LOGGING

#### Syslog

### MANAGEMENT

#### Command Line Interface (CLI)

Serial, SSHv2, Telnet

#### Browser User Interface (GUI)

HTTP and HTTPS

### SOFTWARE IMAGES

#### 3 Stored on Flash Memory

Current

Rollback

Factory Default

## Specifications

### PERFORMANCE

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

### CAPACITY

Policies	500
Number of Users	Unlimited

### PORT CONFIGURATION

#### Optimizer

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

#### Optimizer 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

#### Optimizer

P/N: FLOO-300R-00

#### Optimizer 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](http://clearwidth.com/support).



Optimizer



Optimizer SFP

### OPTIMIZER 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
- Two configurations available
  - RJ45
  - SFP (for fiber connectivity)
- Small form factor
  - No rack required
  - Place anywhere

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