

# Accelerator 1610

## Network Performance Optimization Solution for Systems Integrators

Good things don't only come in large packages. In fact, in today's global and mobile network environments flexibility, performance, and form-factor are key. Expand continues to deliver the world's most flexible WAN Optimization technology on the efficient PC104+ form-factor. Full-featured and holistic WAN Optimization implemented in the customized PC104+ communications enclosure, enabling WAN optimization virtually anywhere on the globe.

### Small Form Factor – PC104+

The Accelerator 1610 delivers flexibility and scalability in an extremely functional form factor. Ideal for integration into mobile communications packages which utilize the PC104 stack, the Accelerator 1610 provides standards-based TCP Acceleration (SCPS), Compression and Quality of Service performance enhancements that optimize and condition wide area networks.

### Network Agnostic

Ideal for all SATCoM environments, the Expand solution overcomes network challenges frequently encountered in dynamic bandwidth and dynamic latency networks, such as BGAN, INMARSAT, and MF-TDMA allowing for the use of all subscribed bandwidth and additional throughput gains enabled by Expand's best of breed byte-level caching and compression.

### Productivity and Performance

All Expand solutions are designed with productivity, cost reduction and simplicity in mind. For end users, productivity increases as application performance reliably improves. By providing a simple and integrated solution, Expand enables IT to more efficiently manage the application infrastructure—reducing servers and other appliances while delivering a holistic network view.

### Transparent Operations

Many WAN Optimization solutions tunnel between appliances, blocking information needed by monitoring solutions (e.g., NetFlow) or security implementations such as firewalls and ACLs. Expand optimizes traffic transparently without tunneling.

### All IP Traffic

Most WAN Optimization solutions are focused on a portion of TCP-based traffic. Expand's IP optimization engine not only optimizes non-TCP (UDP, etc.) traffic, but will also optimize the difficult interactive applications based on TCP such as Citrix, Terminal Services or RDP and VDI.

## Product Overview



## Features:

- Fits all compliant PC104+ hardware enclosures
- Maximum compressed bandwidth of up to 1 Mbps
- Maximum optimization bandwidth of up to 6 Mbps
- Up to 10 connected remote Accelerators
- 32,000 concurrent TCP sessions
- 512 KB of RAM – No moving parts

## Product Overview

### Features:

## Holistic WAN Optimization

Expand delivers a holistic platform of integrated services — WAN Optimization, Acceleration, Management & Visibility, and Security — addressing WAN performance issues while also aligning with your key business drivers.

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FUNCTIONALITY	
<b>WAN Optimization</b>	<b>Compression:</b> Completely transparent data reduction, caching, and other techniques for all IP traffic, including UDP and interactive TCP (Citrix, RDP, etc.) <b>QoS:</b> Easy to use inbound and outbound priority and shaping control, with burst-capable bandwidth limits and application keep-alive technology
<b>Acceleration</b>	<b>Application Optimization:</b> Oracle, SAP, Exchange, Citrix, RDP, Double-Take, Maximo, SnapMirror, MIMIX, BAAN, and all other IP-based applications <b>Protocol Optimization:</b> TCP, HTTP, FTP, ICA, RDP, VoIP and Streaming Protocols
<b>Management &amp; Visibility</b>	<b>ExpandView:</b> Automatic performance and device monitoring, template-based configuration profiles, and automated device updates <b>Application &amp; Network Visibility:</b> Automatic discovery of over 400 applications with Layer 7 visibility
<b>Security</b>	<b>AAA:</b> RADIUS (RFC 2138), TACACS+

PERFORMANCE SPECIFICATIONS	
<b>WAN Speed for Compressed Throughput</b>	64 Kbps – 1 Mbps
<b>WAN Speed for TCP Acceleration and Layer-7 QoS Throughput</b>	6 Mbps
<b>Maximum LAN Throughput</b>	100 Mbps
<b>Concurrent TCP Sessions</b>	32,000
<b>Hard Drive</b>	None
<b>Connected Accelerators</b>	Up to 10 connections to remote Accelerators
<b>Memory</b>	512 MB
<b>Network Transparency</b>	Transparency Mode with complete Layer 3 and Layer 4 header preservation – no tunnels
<b>Failover</b>	Standards-based with HSRP (RFC-2281) and VRRP (RFC-2338)
<b>Resilience</b>	No moving parts/spinning media
<b>Dimensions</b>	PC-104+ form factor 3.74" x 3.74" (95 mm x 95 mm)
<b>Weight</b>	0.24 lbs (110g)
<b>Network Interfaces</b>	10/1– BaseT Ethernet (RJ45)
<b>Power</b>	External power supply support
<b>Power Consumption</b>	5V@1.13 A (Max)

WAN CAPACITY	
<b>Accelerator 1610</b>	<ul style="list-style-type: none"><li>• Connected Accelerators: 10</li><li>• # of IP Connections: 32,000</li><li>• Compression: 1 Mbps</li><li>• Optimization: 6 Mbps</li><li>• Acceleration: 3 Mbps</li><li>• WAFS: N/A</li><li>• Hard Drive Capacity: N/A</li><li>• # of WAFS Users: N/A</li><li>• Redundant Power Supply: N/A</li></ul>