

# ACCELERATOR 4930

AN ALL-IN-ONE OPTIMIZATION SOLUTION FOR SMALL OFFICES/BRANCH OFFICES

## SIX REASONS TO SAY "YES" TO EXPAND

### 1. Comprehensive

Whether the WAN is used to connect file servers, email or business applications, Expand delivers a comprehensive approach to application and protocol acceleration.

### 2. Proven, Measurable Impact

Expand solutions consistently deliver bandwidth increases of 100% and 400% (with peaks over 1,000%).

### 3. Application-centric

Traditional optimization solutions are about the network — the Expand solution is about what really matters: the applications.

### 4. Transparent Operations

Expand's solution optimizes traffic transparently without tunneling, simplifying integration into your networking infrastructure while also preserving investments in other systems.

### 5. All IP

Many WAN Optimization solutions narrowly focus on only a portion of TCP-based traffic. Expand optimizes non-TCP traffic (UDP, etc.), as well as difficult interactive applications such as Citrix and Terminal Services.

### 6. Microsoft Compliance

The Expand solution is part of the Microsoft Domain so it can strictly maintain all user and document security and controls while optimizing performance.

By putting multiple optimization capabilities all together, Expand Networks Accelerators deliver everything today's small offices/branch offices need in one cost-effective solution.

### About the Accelerator 4930

The Accelerator 4930 for small offices/branch offices delivers:

- Up to 6 Mbps of compression<sup>1</sup>
- Up to 45 Mbps of optimization<sup>2</sup>
- Up to 15 Mbps of acceleration<sup>3</sup>
- Up to 100 connected remote Accelerators
- Up to 64,000 concurrent IP connections
- Up to 200 WAFS users<sup>5</sup>

### 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. Time spent waiting for data and applications access over the WAN is dramatically reduced if not eliminated. 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 from a single access point. The productivity and performance gains made possible by Expand deliver a crisp and measurable return on investment.

### Transparent Operations

Many WAN optimization solutions tunnel between appliances, obfuscating information needed by monitoring solutions like NetFlow, or security implementations like firewalls and ACLs. Expand's solution optimizes traffic transparently without tunneling, simplifying integration into your infrastructure now and in the future.

The Expand solution works with HSRP/VRRP and WCCP and maintains original protocol headers (IP, TCP, UDP, etc.) so that there is minimal impact to your networking



infrastructure, while also preserving investments in other systems relying on the accuracy of these headers.

### All IP Traffic

Many WAN Optimization solutions are narrowly 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 Telnet. All IP traffic is optimized and no compromises are necessary.

### Microsoft Compliance

The Expand solution not only works with the Microsoft Domain, it is actually part of the Domain. This allows Expand Accelerators to strictly maintain all user and document security and controls while optimizing performance. Expand's solution is fully compliant with Microsoft's SMB-signing protocol guaranteeing communication authenticity — Expand is the only solution that will accelerate with SMB-signing enabled. In addition, being joined to the domain, Expand provides printing, DHCP, and even WAN-Out services seamlessly, allowing for true server consolidation.

### Holistic WAN Optimization

Point solutions for WAN optimization and application acceleration may solve specific technical issues, while leaving you vulnerable to performance issues that jeopardize overall business objectives. 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.

| Functionality                    |  |
|----------------------------------|--|
| WAN Optimization                 |  |
| Compression                      | Completely transparent data reduction, caching, and other techniques for all IP traffic, including UDP and interactive TCP (Citrix, RDP, etc.) |
| QoS                              | Easy to use inbound and outbound priority and shaping control, with burst-capable bandwidth limits and application keep-alive technology       |
| Acceleration                     |  |
| Application Optimization         | Oracle, SAP, Exchange, Citrix, RDP, Double-Take, Maximo, SnapMirror, MIMIX, BAAN, and all other IP-based applications                          |
| Protocol Optimization            | SCPS-TP (TCP), HTTP, FTP, ICA, RDP, VoIP and Streaming Protocols   |
| Management & Visibility          |  |
| ExpandView                       | Automatic performance and device monitoring, template-based configuration profiles, and automated device updates                               |
| Application & Network Visibility | Automatic discovery of over 400 applications with Layer 7 visibility   |
| WAFS                             |  |
| CIFS and Server Consolidation    | Virtual server with Domain privileges and SMB-signing compliance   |
| WAN-Out and Services Integration | Integrated virtual services, including printing, DHCP, and WAN-Out   |
| Security                         |  |
| Encryption                       | IPSec 3DES or AES (AES-128, AES-192, or AES-256) link encryption   |
| AAA                              | RADIUS (RFC 2138), TACACS+   |
| Performance Specifications       |  |
| WAN Capacity                     | Compression <sup>1</sup> : 256Kbps-6Mbps / Optimization <sup>2</sup> : 256Kbps-45Mbps / Acceleration <sup>3</sup> : 256Kbps-15Mbps             |
| No. of WAFS Users                | 200  |
| Maximum LAN Throughput           | 1,000 Mbps   |
| No. of IP Connections            | 64,000   |
| Hard Drive                       | 160 GB   |
| Connected Accelerators           | 100 connections to remote Accelerators   |
| Memory                           | 1 GB   |
| Network Transparency             | Transparency Mode with complete Layer 3 and Layer 4 header preservation -- no tunnels  |
| Failover                         | Standards-based with HSRP (RFC-2281) and VRRP (RFC-2338)   |
| Resilience                       | Switch-to-wire   |
| Dimensions                       | 17.4" x 1.8" x 13.5" (44.3 cm x 4.5 cm x 34.2 cm)  |
| Weight                           | 12.8 lbs (5.8 kg)  |
| Network Interfaces               | 10BaseT/100BaseTX/1000BaseT Speed and Duplex Auto Sensing. Standards Conformance: IEEE 802.1Q -2003 and IEEE 802.3 - 2002                      |
| Power                            | Auto-sensing 100-240 VAC, 50-60 Hz, 1.5-0.6 A (optional redundant power supply)  |
| Power Consumption                | 75W (Max)  |
| Temperature                      | 32-104F (0-40C)  |
| Humidity                         | 0 to 90% (non condensing)  |
| Heat Dissipation                 | 255 BTU (Max)  |
| Safety                           | TUV 60950, CAN/CSA C22.2, EN60950/A4, No. 950-95   |
| EMC                              | FCC Part 15 subpart B Class B, EN55022, EN61000-4-2, EN61000-4-3, ENV5024, EN61000-4-4, CISPR16, ICES-003 Class A                              |

| Product            | Connected Accelerators | No. of IP Connections | WAN CAPACITY             |                           |                           |                   | Hard Drive Capacity | No. of WAFS Users | Redundant Power Supply |
|--------------------|------------------------|-----------------------|--------------------------|---------------------------|---------------------------|-------------------|---------------------|-------------------|------------------------|
|                    |                        |                       | Compression <sup>1</sup> | Optimization <sup>2</sup> | Acceleration <sup>3</sup> | WAFS <sup>4</sup> |                     |                   |                        |
| Accelerator 6950   | 350                    | 256,000               | 45Mbps                   | 250Mbps                   | 100Mbps                   | Unlimited         | 500GB RAID 1        | 1000              | ✓                      |
| Accelerator 6850   | 350                    | 256,000               | 45Mbps                   | 250Mbps                   | 100Mbps                   | -                 | -                   | -                 | ✓                      |
| Accelerator 6930   | 200                    | 128,000               | 10Mbps                   | 100Mbps                   | 45Mbps                    | Unlimited         | 500GB               | 500               | ✓                      |
| Accelerator 6830   | 200                    | 128,000               | 10Mbps                   | 100Mbps                   | 45Mbps                    | -                 | -                   | -                 | ✓                      |
| Accelerator 4930   | 100                    | 64,000                | 6Mbps                    | 45Mbps                    | 15Mbps                    | Unlimited         | 160GB               | 200 <sup>5</sup>  | Optional               |
| Accelerator 4830   | 100                    | 64,000                | 6Mbps                    | 45Mbps                    | 15Mbps                    | -                 | -                   | -                 | Optional               |
| Accelerator 3930   | 100                    | 64,000                | 2Mbps                    | 15Mbps                    | 6Mbps                     | Unlimited         | 160GB               | 50 <sup>5</sup>   | -                      |
| Accelerator 3830   | 100                    | 64,000                | 2Mbps                    | 15Mbps                    | 6Mbps                     | -                 | -                   | -                 | -                      |
| Accelerator 1610 * | 10                     | 32,000                | 1Mbps                    | 6Mbps                     | 3Mbps                     | -                 | -                   | -                 | -                      |

<sup>1</sup> Maximum Bandwidth For Monitoring, Layer 7 QoS And Compression.

<sup>2</sup> Maximum Bandwidth For Monitoring Layer 7 QoS And TCP Acceleration (SCPS).

<sup>3</sup> Expected Bandwidth For A Mixture Of Services Such As TCP Acceleration, Partial Compression, WAFS, Web Caching.

<sup>4</sup> Maximum Bandwidth For Monitoring Layer 7 QoS and WAFS, Limitation Is The Number Of Users And The Physical Connection.

<sup>5</sup> Accelerator 4930 & 3930 Can Only Be Used As A Branch Device For WAFS.

\* The 1610 accelerator is a PC104+ compliant device and requires a PC104+ compliant enclosure for use.