

M Series Modules

Feature-extending plug-in modules for NSA Series firewalls

Dell™ SonicWALL™ M Series Modules extend the functionality of Dell SonicWALL firewalls, deployable as either a Next-Generation Firewall or Unified Threat Management Firewall, with a feature-extending addition of expandable module slots. Designed for branch offices, networks and small- to medium-sized businesses, M Series Modules incorporate high-end enterprise features that are found on Dell SonicWALL E-Class Network Security Appliance (NSA) Series solutions, such as LAN bypass and make them available on Dell SonicWALL mid-range NSA Series appliances with modular slots.

The M Series Modules significantly reduce hardware infrastructure costs, lower administrative overhead and eliminate potential points of failure associated with separate multiple-vendor solutions. As easy-to-implement plug-in components, M Series Modules add new functionality immediately upon rebooting the firewall.

M Series Modules

The **Dell SonicWALL 4 Port GbE M1 Module** expands port density of a Dell SonicWALL NSA Series firewall by adding four 1-Gbps Ethernet networking interfaces without incurring costs of an additional switch and thereby reducing points of failure. A Dell SonicWALL 4 port GbE M1 Module delivers additional comprehensive security that a separate, expensive Layer-3 managed switch would not provide.

The **Dell SonicWALL 2 Port SFP M1 Module** adds fiber connectivity to a Dell SonicWALL NSA Series firewall, over two SFP copper/fiber 1-Gbps Ethernet networking interfaces. The 2 port SFP M1 Module can use any Dell SonicWALL-supported third-party SFP transceivers, whether using multi- or single-mode fiber, or regular copper GbE connectors. This adds a layer of centralized security that a separate switch cannot provide.

The **Dell SonicWALL T1/E1 M1 Module** connects a T1 or E1 digitally multiplexed telecommunications carrier system circuit via an RJ-48 jack to a Dell SonicWALL NSA Series firewall with a module slot, thus creating an edge secure router that delivers high-performance routing.

The **Dell SonicWALL ADSL Annex A M1 Module** connects an asynchronous digital subscriber line circuit via an RJ-11 jack to a Dell SonicWALL NSA Series firewall with a module slot, thus creating an edge secure router that delivers high-performance routing. The Annex A M1 Modules adheres to the ITU G.992.1 Annex A standard, which supports ADSL over POTS.

The **Dell SonicWALL ADSL Annex B M1 Module** connects an asynchronous digital subscriber line circuit via an RJ-45 jack to a Dell SonicWALL NSA Series firewall with a module slot, thus creating an edge secure router that delivers high-performance routing. The Annex B module adheres to the ITU G.992.1 Annex B M1 Module standard, which supports ADSL over ISDN.

- Dell SonicWALL 4 Port GbE M1 Module
- Dell SonicWALL 2 Port SFP M1 Module
- Dell SonicWALL T1/E1 M1 Module
- Dell SonicWALL ADSL Annex A M1 Module
- Dell SonicWALL ADSL Annex B M1 Module
- Dell SonicWALL LAN Bypass GbE M1 Module

The **Dell SonicWALL LAN Bypass GbE M1 Module** provides a fail-safe open-state switch for an NSA Series firewall with a modular slot that, in case of an unrecoverable firewall error, allows network traffic to continue to

flow without firewall services. This is primarily useful in inline L2 Bridge or Transparent Mode deployments where network shutdown due to a bump-in-wire firewall failure would be unacceptable.

Specifications

4 Port GbE Module

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|-------------------------|---|
| Connector | Four gigabit Ethernet RJ-45 connectors |
| Size | 9.5 x 6.0 x 3.0 in/24.13 x 15.24 x 7.62 cm |
| Weight | 0.70 lbs/0.32 kgs |
| Ethernet specifications | Auto-sensing for 10/100/1000 Mbps full duplex and half duplex, auto-correcting MDI/MDIX, Link and Activity LEDs |



Dell SonicWALL 4 Port GbE Module 01-SSC-8825

2 Port SFP Module

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|------------------------|---|
| Connector | Two SFP sockets, SFP transceivers sold separately |
| Size | 9.5 x 6.0 x 3.0 in/24.13 x 15.24 x 7.62 cm |
| Weight | 0.70 lbs/0.32 kgs |
| Ethernet speeds | Auto-sensing for 100/1000 Mbps full duplex and half duplex, auto-correcting MDI/MDIX |
| Ethernet specification | 10/100/1000 Base-T over copper modules, auto-MDIX, auto-negotiation, half/full duplex, 1000 Base-X over fiber modules, half/full duplex, link and activity LEDs |



Dell SonicWALL 2 Port SFP Module 01-SSC-8826

1 Port ADSL Module Annex A

1 Port ADSL Module Annex B

| | | |
|-------------------|--|-------------------------------|
| Connector | One RJ-11 connector | One RJ-45 connector |
| Size | 9.5 x 6.0 x 3.0 in/24.13 x 15.24 x 7.62 cm | |
| Weight | 0.70 lbs/0.32 kgs | |
| Protocol standard | ITU-T G.992.1/3/5 (ADSL/2/2+); ITU-T G.992.2 (G.lite); ANSI T.1.413 Issue 2; DTAG UR2 and ETSI standards for ADSL over ISDN; Support PPPoE, PPPoA, Bridging, Semi-Bridging and Multi-PVC (ATM) | ITU-T G.992.1/3/5 (ADSL/2/2+) |



Dell SonicWALL 1 Port ADSL Module Annex A 01-SSC-8827

1 Port T1/E1 Module

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| Connector | One RJ-48 connector |
| Size | 9.5 x 6.0 x 3.0 in/24.13 x 15.24 x 7.62 cm |
| Weight | 0.70 lbs/0.32 kgs |
| Standards supported | ANSI T1.403, ITU G.703 T1/E1, AT&T 54016 ESF framing, AT&T 62411 D4 framing, ITU G.704, frame structures for 1544 and 2048 kbit/s hierarchical levels, ITU G.706 – frame alignment and CRC |
| Encapsulation | HDLC, PPP, Cisco HDLC |
| Clock source | Internal or external |
| Line coding – T1 | B8Zs or AMI |
| Line coding – E1 | HDB3 or AMI |
| Framing – T1 | D4 (SF) or ESF |
| Framing – E1 | FAS or MFAS |
| DSO speed | 56Kb or 64Kb |
| Data DSO selectable | Yes |



Dell SonicWALL 1 Port ADSL Module Annex B 01-SSC-8828



Dell SonicWALL 1 Port T1/E1 Module 01-SSC-8829

2 Port GbE with LAN Bypass Module

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|-------------------------|--|
| Connector | Two gigabit Ethernet RJ-45 connectors |
| Size | 9.5 x 6.0 x 3.0 in/24.13 x 15.24 x 7.62 cm |
| Weight | 0.70 lbs/0.32 kgs |
| Ethernet specifications | Auto-sensing for 10/100/1000 Mbps full duplex and half duplex, auto-correcting MDI/MDIX, bypass status LED, link and activity LEDs |



Dell SonicWALL 2 Port GbE with LAN Bypass Module 01-SSC-8830