



AT-SBx908 GEN2 Advanced Layer 3+ Modular Switch Hardware Release Notes

Please read this document before installing the product. The document has the following sections:

- “Installation Guides”
- “Optimal Performance for XEM2 Line Cards”
- “Hotswapping Guidelines for XEM2 Line Cards” on page 2
- “Updated Tables for Maximum Power Consumption and Heat Dissipation” on page 4
- “Support for the AT-XEM2-1CQ Line Card” on page 5
- “Contacting Allied Telesis” on page 5

Installation Guides

This document applies to the following AT-SBx908 GEN2 Installation Guides:

- AT-SBx908 GEN2 Installation Guide for Stand-alone Switches (PN 613-002443)
- AT-SBx908 GEN2 Installation Guide for Virtual Chassis Stacking (PN 613-002595)

Optimal Performance for XEM2 Line Cards

The eight line card slots in the AT-SBx908 GEN2 Switch are divided into four slot groups. Each group consists of two slots, as listed here:

- Group 1 - Line card slots 1 and 2
- Group 2 - Line card slots 3 and 4
- Group 3 - Line card slots 5 and 6
- Group 4 - Line card slots 7 and 8

The bandwidth of a card slot group with two AT-XEM2-4QS Line Cards will be slightly less than line-rate when all the traffic packets are 193 bytes or less in size. This limitation is likely to occur only in lab-test scenarios and can be avoided by not installing two AT-XEM2-4QS Line Cards in the same card slot group.

Hotswapping Guidelines for XEM2 Line Cards

This section contains updated hotswapping guidelines for XEM2 Line Cards. Table 1 lists the applicable pages in the AT-SBx908 GEN2 Installation Guides.

Table 1. Pages for Hotswapping Information

Installation Guide	Revision	Page
AT-SBx908 GEN2 Installation Guide for Stand-alone Switches	A	145
	B	151
AT-SBx908 GEN2 Installation Guide for Virtual Chassis Stacking	A	192
	B	192

Table 2 contains the updated guidelines.

Table 2. Updated Hotswapping Guidelines for XEM2 Line Cards

XEM2 Line Card	Description
AT-XEM2-12XT AT-XEM2-12XS AT-XEM2-4QS	<p>No reset of the switch is required when hotswapping the cards in the following situations:</p> <ul style="list-style-type: none"> - Installing a card in an unused line card slot that was not provisioned for any card. - Installing a card in a line card slot that was provisioned for it or one of the other cards. - Replacing a card with the same model (for example, replacing an AT-XEM2-12XT Card with another AT-XEM2-12XT Card). - Replacing a card with a different model (for example, replacing an AT-XEM2-12XS Card with an AT-XEM2-4QS Card). <p>Resetting the switch is required when installing one of the cards in a line card slot that was used by or provisioned for the AT-XEM2-1CQ Card.</p>

Table 2. Updated Hotswapping Guidelines for XEM2 Line Cards (Continued)

XEM2 Line Card	Description
AT-XEM2-1CQ	<p>No reset of the switch is required when hotswapping the AT-XEM2-1CQ Card in the following situations:</p> <ul style="list-style-type: none"> - Replacing the AT-XEM2-1CQ Card with another AT-XEM2-1CQ Card. - Installing the AT-XEM2-1CQ Card in a line card slot that was provisioned for it with the SWITCH BAY PROVISION command. (The switch, however, must be reset after the provisioning command.) <p>You must reset the switch after hotswapping the card under these conditions:</p> <ul style="list-style-type: none"> - Installing the AT-XEM2-1CQ Card in a line card slot that was not provisioned for it. - Replacing one of the other cards with the AT-XEM2-1CQ Card. - Replacing the AT-XEM2-1CQ Card with one of the other cards. - Provisioning a line card slot for the AT-XEM2-1CQ Card with the SWITCH BAY PROVISION command. The provision is not implemented until the switch is reset

Here are additional hotswapping guidelines:

- ❑ Allied Telesis recommends saving a backup copy of the switch's configuration file before removing or replacing XEM2 Line Cards. For instructions, refer to the Software Reference for SwitchBlade x908 GEN2 Switches.
- ❑ When hotswapped, XEM2 Line Cards might require up to thirty seconds to become fully operational.
- ❑ Remember to save the switch's configuration with the WRITE FILE command after issuing the SWITCH BAY PROVISION command to provision a line card slot for a card.
- ❑ AlliedWare Plus alerts you with critical log messages on the console and in the buffered log if you need to reset the switch after hotswapping line cards. (The buffered log is displayed with the SHOW LOG command.) Here are examples of the messages. The first example is from replacing an AT-XEM2-1CQ Card with an AT-XEM2-12XT Card:

Console Message:

```
23: 22: 28 awplus HSL[996]: Stack member 1 must be rebooted to
configure for AT-XEM2-12XT, disabling XEM.
```

Buffered log:

```
2018 May 15 23: 22: 28 local6.crit awplus HSL[996]: Stack member 1
must be rebooted to configure for AT-XEM2-12XT, disabling XEM.
```

The next example is from replacing an AT-XEM2-12XT Card with an AT-XEM2-1CQ Card:

Console Message:

```
23:26:02 awplus HSL[996]: Stack member 1 must be rebooted to
configure for AT-XEM2-1CQ, disabling XEM.
```

Buffered log:

```
2018 May 15 23:26:02 local6.crit awplus HSL[996]: Stack member 1
must be rebooted to configure for AT-XEM2-1CQ, disabling XEM.
```

Updated Tables for Maximum Power Consumption and Heat Dissipation

This section contains updated tables for maximum power consumption and heat dissipation in Appendix A, Technical Specifications, in the installation guides. Table 1 lists the pages.

Table 3. Pages with Maximum Power Consumption and Heat Dissipation Tables

Installation Guide	Revision	Pages
AT-SBx908 GEN2 Installation Guide for Stand-alone Switches	A	163, 164
	B	169, 170
AT-SBx908 GEN2 Installation Guide for Virtual Chassis Stacking	A	209, 210
	B	213, 214

Maximum Power Consumption

Table 4 updates the maximum power consumption values.

Table 4. Maximum Power Consumptions (Watts)

AT-SBx908 GEN2 Main Board	91.88 W
AT-SBx908 GEN2 Main Board with Two AT-FAN08 Fan Modules (No Ethernet Line Cards)	124.74 W
AT-FAN08 Fan Module	16.43 W
AT-XEM2-12XT Line Card	39.73 W
AT-XEM2-12XS Line Card	30.31 W
AT-XEM2-4QS Line Card	16.14 W
AT-XEM2-1CQ Line Card	6.71 W

Heat Dissipation

Table 5 updates heat dissipation values.

Table 5. Heat Dissipations (British Thermal Units/Hour)

AT-SBx908 GEN2 Chassis with Two AT-FAN08 Modules (No Ethernet Line Cards)	425.69 BTU/hr
AT-FAN08 Fan Module	56.07 BTU/hr
AT-XEM2-12XT Line Card	135.58 BTU/hr
AT-XEM2-12XS Line Card	103.43 BTU/hr
AT-XEM2-4QS Line Card	55.08 BTU/hr
AT-XEM2-1CQ Line Card	22.90 BTU/hr
AT-SBxPWRSYS2 AC Power Supply	5118.21 BTU/hr
AT-SBxPWRSYS1-80 DC Power Supply	5118.21 BTU/hr

Support for the AT-XEM2-1CQ Line Card

The AT-XEM2-1CQ Line Card requires AlliedWare Plus version 5.4.8-0.2 or newer.

Contacting Allied Telesis

If you need assistance with this product, you may contact Allied Telesis technical support by going to the Support & Services section of the Allied Telesis web site at www.alliedtelesis.com/support. You can find links for the following services on this page:

- 24/7 Online Support - Enter our interactive support center to search for answers to your questions in our knowledge database, check support tickets, learn about RMAs, and contact Allied Telesis technical experts.
- USA and EMEA phone support - Select the phone number that best fits your location and customer type.
- Hardware warranty information - Learn about Allied Telesis warranties and register your product online.
- Replacement Services - Submit a Return Merchandise Authorization (RMA) request via our interactive support center.
- Documentation - View the most recent installation guides, user guides, software release notes, white papers and data sheets for your product.
- Software Updates - Download the latest software releases for your product.

For sales or corporate contact information, go to www.alliedtelesis.com/purchase and select your region.

Copyright © 2019 Allied Telesis, Inc.

All rights reserved. No part of this publication may be reproduced without prior written permission from Allied Telesis, Inc.

Allied Telesis and AlliedWare Plus are trademarks of Allied Telesis, Inc. All other product names, company names, logos or other designations mentioned herein are trademarks or registered trademarks of their respective owners.

Allied Telesis, Inc. reserves the right to make changes in specifications and other information contained in this document without prior written notice. The information provided herein is subject to change without notice.