Conettix Ethernet Communication Module

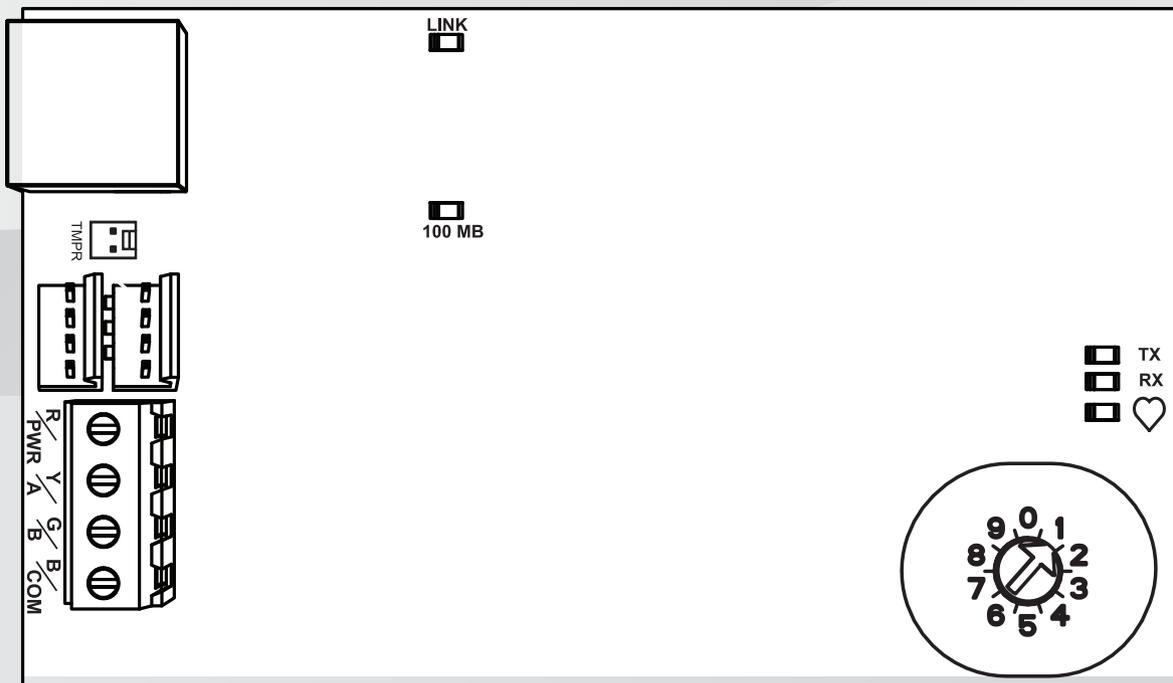B426

en Release Notes

Table of contents

1   Introduction

These *Release Notes* are for the B426 with **firmware versions v3.04.001 and v3.05.**

1.1   Requirements

Hardware identification for B426 modules

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i	**Notice!** **B426-M firmware support** The B426-M supports firmware v3.03 and higher

Firmware v3.02 and higher require the new module hardware to operate. Modules with v3.01 firmware cannot update to this firmware version.

To determine a B426 hardware version, do one of the following:

– Compare the hardware to the diagram below. On the v3.01 hardware, the pins on the tamper switch connector align with the pins on one interconnect wiring connector. On the new hardware, the pins do not align.
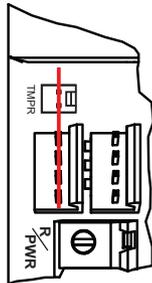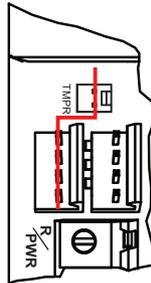
v3.01   v3.02+

– Connect to the module using the web-based configuration and view the firmware version on the Device Information (home) page.

Compatibility

Control panels - B426	B9512G/B9512G-E
	B8512G/B8512G-E
	B6512
	B5512/B5512E
	B4512/B4512E
	B3512/B3512E
	D9412GV4/D7412GV4/D7212GV4
	D9412GV3/D7412GV3/D7212GV3
	D9412GV2/D7412GV2/D7212GV2 Version 7.06 or higher
	DS7220 Version 2.10 or higher
	DS7240 Version 2.10 or higher
	DS7400XiV4 Version 4.10 or higher
	Easy Series V3+
	FPD-7024
	AMAX 2100/3000/4000 *
	Solution 2000/3000*
	*The B426-M is recommended for AMAX and Solution Series control panels.

Control panels - B426-M	AMAX 2100/3000/4000 v2.00+ Solution 2000/3000
Applications	A-Link Plus RPS/RPS Lite PC9000 (Supported on D9412GV2/D7412GV2/D7212GV2 v7.06 and higher, and D9412GV3/D7412GV3/D7212GV3 v8.05 and v8.13 and higher only) IS2000 (Supported on D9412GV2/D7412GV2/D7212GV2 v7.06 and higher, and D9412GV3/D7412GV3/D7212GV3 v8.05 and v8.13 and higher only) Remote Security Control (Supported on GV4, B9512G/B8512G, B9512G-E/B8512G-E, B6512/B5512/B4512/B3512, B5512E/B4512E/B3512E, and Solution 2000/3000) Remote Security Control+ (Supported on AMAX and Solution Series control panel)
Browsers	Microsoft Internet Explorer (Microsoft Windows 7 and higher) Mozilla Firefox

1.2   About documentation

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Bosch Security Systems, Inc. product manufacturing dates

Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at http://www.boschsecurity.com/datecodes/.

2   Firmware version 3.08

What's fixed

2.1   What's fixed

2.1.1   Updates to the bootloader

This firmware release contains updates to improve the performance of the bootloader.

2.1.2   Updates to TCP keep alive

This firmware release contains performance improvements related to maintaining connections to the cloud.

2.1.3   Updates to the web server

This firmware release contains updates to improve the security/access of the webserver during login. Improvements allow for one user to have access during the login process of the webserver.

3   Firmware version 3.06

What's new

–   Incoming RPS connections
–   *Secure connections using TLS v1.1 and v1.2 now supported, page 7*

3.1   What's new

This section examines the new features of this firmware version.

3.1.1   Incoming RPS connections

In addition to answering incoming calls from RPS using UDP (User Datagram Protocol), incoming calls from RPS using TCP (Transfer Control Protocol) are also supported. RPS version 6.07 is required for this modified connection method.

i	**Notice!** Only applicable when connected to a Bosch B Series, or G Series control panel with firmware version 3.07 or higher.

3.1.2   Secure connections using TLS v1.1 and v1.2 now supported

The firmware now supports secure connections, including personal notification email servers, using TLS v1.0 (strong ciphers only), v1.1, and v1.2. In previous versions of the firmware, control panel TLS connections required TLS v1.0 support.

4   Firmware version 3.05

What's new
–   *Remote Connect Service support, page 8*

Known issues
–   *Network Module Trouble with 2 modules, page 8*
–   *IP address error on keypads, page 8*

4.1   What's new

This section examines the new features of this firmware version.

4.1.1   Remote Connect Service support

Remote Connect Service enables a secure control panel connection to mobile apps and remote programming software using Bosch Cloud services. The service allows a secure TLS connection to a control panel without specific port and router settings and without a static IP or DNS.

i	**Notice!** **North America only** Remote Connect Services and Bosch Cloud services are currently available in North America only.

4.2   Known issues

This section examines the known issues of this firmware version.

4.2.1   Network Module Trouble with 2 modules

A Network Module Trouble might occur on a B9512G/B8512G system with two B426 modules when changing the Route Group information for the module through which RPS is connected. If the Trouble does not clear within a short period of time, reconnect with RPS. If reconnecting to the system with RPS does not clear the problem, restart the system. You can restart the system when connected to it using RPS by clicking the Reset checkbox.

4.2.2   IP address error on keypads

The B9512G/B8512G and B6512/B5512/B4512/B3512 control panels might show an incorrect error.
If the keypad shows "IP Address Error" in the display, RPS might still be capable of connecting to the control panel using direct connect with a B426.

5   Firmware version 3.04.001

What's new

Corrections

Known issues

5.1   What's new

This section examines the new features of this firmware version.

5.1.1   Configuration using option bus control panels

The module now supports configuration programming using an option bus connection with the control panel.

5.1.2   SIA DC09 event reporting support for AMAX control panels

AMAX control panels now support SIA DC09 event reporting.

5.2   Corrections

This section examines the corrections made in this firmware version.

5.2.1   Configuration pages

Minor bugs found in the configuration web pages have been fixed.

5.3   Known issues

This section examines the known issues of this firmware version.

5.3.1   Network Module Trouble with 2 modules

A Network Module Trouble might occur on a B9512G/B8512G system with two B426 modules when changing the Route Group information for the module through which RPS is connected. If the Trouble does not clear within a short period of time, reconnect with RPS. If reconnecting to the system with RPS does not clear the problem, restart the system. You can restart the system when connected to it using RPS by clicking the Reset checkbox.

5.3.2   IP address error on keypads

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If the keypad shows "IP Address Error" in the display, RPS might still be capable of connecting to the control panel using direct connect with a B426.

6   Revision history

This section examines the notable features of previous revisions of this firmware.

6.1   Version 3.03.009 firmware

Notable features
–   *Security protocol support, page 10*
–   *TCP connection timeouts, page 10*

6.1.1   Security protocol support

For increased security, the B426 no longer supports SSL3.0 and cipher suites with known vulnerabilities.
The B426 continues to support TLS1.0 with the following cipher suites:
–   TLS_RSA_WITH_AES_128_CBC_SHA
–   TLS_RSA_WITH_AES_256_CBC_SHA

6.1.2   TCP connection timeouts

For increased security, the B426 now includes a 10 second timeout. The B426 closes a TCP connection if the module does not receive a message within 10 seconds of establishing a connection.

6.2   Version 3.03.007 firmware

Notable features
–   *High traffic network enhancements, page 10*

6.2.1   High traffic network enhancements

This firmware version enhances the performance of the module on Ethernet networks with high volumes of broadcast and multicast traffic.

6.3   Version 3.03 firmware

Notable features
–   *Solution 2000/3000 control panel support, page 10*
–   *Email notifications, page 10*
–   *Increased IPv6 compatibility, page 10*
–   *Event reporting using CSV-IP protocol, page 11*

6.3.1   Solution 2000/3000 control panel support

The module now supports the Solution 2000/3000 control panels. The control panels replace the Solution Series control panels.

6.3.2   Email notifications

The module now supports personal notifications using email on control panels that support email; control panels B9512G/B8512G, B6512/B5512/B4512/B3512 v2.03 and higher, and Solution 2000/3000.
To enable the email notification option in the module, use remote programming software. Web-based configuration does not support programming of email server options with this version of firmware.

6.3.3   Increased IPv6 compatibility

This version includes modifications to the module that make it more compatible with IPv6.

6.3.4   **Event reporting using CSV-IP protocol**

The module now supports event reporting using CSV-IP protocol on the ICP-SOL2-P/ICP-SOL3-P (Solution 2000/3000) control panel.

6.4   **Version 3.02 firmware**

The module hardware includes additional memory to support the new v3.02 firmware features.

	Notice! Firmware v3.02 and higher require the new module hardware to operate. Modules with v3.01 firmware cannot update to newer (higher) firmware version. Refer to *Requirements, page 4*.

6.5   **Version 3.01 firmware**

This initial release of the B426 Conettix Ethernet Communication Module includes enhancements over its predecessor, the B420. Most notably, the B426 supports IPv6.