

ABC-01-P-M12

Quick Installation Guide

Automatic Backup Configurator

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Overview

The ABC-01-P-M12 is designed for system backup and restoration to enhance maintenance efficiency and reduce system downtime in railway applications, including rolling stock and wayside installations. The ABC-01-P-M12 Automatic Backup Configurator tool can be used to save and load the configuration of Moxa's ToughNet (TN) managed Ethernet switches and wireless APs/bridges/clients through the RS-232 console port. The ABC-01-P-M12 can be continuously plugged into Moxa's Ethernet switches and wireless APs/bridges/clients while the devices are operating, and makes it easier to back up system parameters and manage configurations. With the ABC-01-P-M12, you can quickly configure a replacement switch (of the same model).

Package Checklist

The ABC-01-P-M12 is shipped with the following items.

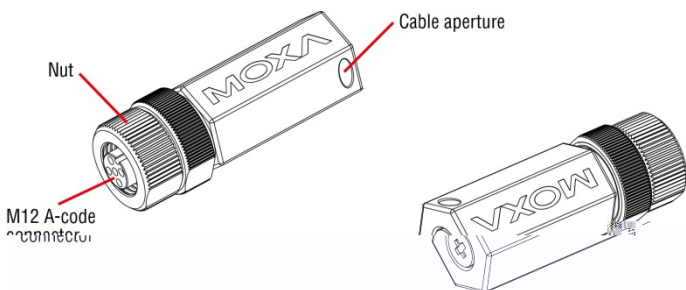
- 1 x ABC-01-P-M12
- Quick installation guide (printed)
- Warranty card

NOTE If any of these items is missing or damaged, please contact your customer service representative for assistance.

Features

- RS-232 M12 console port connection
- Complete configuration storage, including the IP address for one switch
- Automatic loading of system configuration after system reboot
- Manual loading and saving of system configuration through web console
- Portable low-power design that requires no power supply
- Designed to be continuously plugged into the Moxa device
- CE, FCC approval

Hardware Description



Product Installation

The ABC-01-P-M12 is designed solely for use with an RS-232 serial port. To use the ABC-01-P-M12, simply plug it into the M12 console port of your Moxa TN managed switch. Refer to the Product Operation section for instructions on how to save and load the configuration.

NOTE Please check firmware release notes on Moxa's website to obtain the most up-to-date firmware version for the ABC-01-P-M12.

Product Operation

Save a switch's configuration to the ABC-01-P-M12

Use the switch's web console to save the switch's configuration to the ABC-01-P-M12. This function can be found under "Basic Settings/System File Upgrade/Backup Media" in the web console.

Load the configuration from the ABC-01-P-M12 to the switch

There are two ways to load the configuration from the ABC-01-P-M12 to a Moxa TN-series managed switch:

1. Load Automatically

When the ABC-01-P-M12 is plugged in, the switch will automatically load the configuration from the ABC-01-M12 after the switch reboots. This function can be disabled through the web console under "Basic Settings/System File Upgrade/Backup Media," or through the Telnet console under "Basic Settings/Backup Media."

2. Load Manually

When the ABC-01-P-M12 is plugged in, the configuration can be loaded manually through the switch's web console under "Basic Settings/System File Upgrade/Backup Media."

NOTE For further details on the ABC-01-P-M12 operation through the switch's web console, please refer to the switch's user manual.



WARNING

DO NOT remove the ABC-01-P-M12 when the STATE LED is blinking or when the web console is showing WORKING status.

NOTE The status of the ABC-01-P-M12 can be checked on the switch's web console or by observing the switch's front panel LEDs.

Operation	Switch LED status
Save/Load in progress	FAULT, MSTR/HEAD, CPLR/TAIL LEDs blink sequentially and circularly
Save/Load successful	FAULT LED lights off
Save/Load failed	FAULT LED lights on

Specifications

Connectors	RS-232 M12 Port
Storage Capacity	64 KB
Power Requirement	3 to 5 VDC, power input via RS-232 RTS
Configuration	via Moxa TN managed switch's web console
Casing	Aluminum, IP67
Weight	35 g (0.08 lb)
Dimension	55 mm x Ø20 mm (2.17 in x Ø0.79 in)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 % to 95 % (non-condensing)
EMC	EN 55032, EN 55024
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 20 V/m (80 MHz to 1 GHz) IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8
Rail Traffic	EN 50155*, EN 50121-4, EN 45545-2
*This product is suitable for rolling stock railway applications, as defined by the EN 50155 standard. For a more detailed statement, click here: www.moxa.com/doc/specs/EN_50155_Compliance.pdf	
Shock	EN 50155, IEC 61373
Freefall	IEC 60068-2-31
Vibration	EN 50155, IEC 61373
MTBF (mean time between failures)	19,563,216 hrs
Standard	Telcordia SR332
Warranty	5 years
Details	See www.moxa.com/warranty