"Modicon MC80 Controller BMKC80x03xx" FIRMWARE HISTORY
See EcoStruxure Control Expert online help, chapter MC80 Firmware Upgrade

Note: *Our firmware is continuously reviewed and updated in order to maintain the highest level of quality of our products. Schneider Electric recommends to all customers to ensure that their installation is up to date with the newest firmware versions, to protect their infrastructures against cybersecurity threats and experience the best quality. For further information please visit the Schneider Electric Cybersecurity Support Portal: https://www.se.com/ww/en/work/support/cybersecurity/overview.jsp*

Version #	Date of Publication	Internal reference	Description
SV**1.8**	**08/2022**	PEP0664687R	Fixed the Cybersecurity BadAlloc Multiple RTOS Vulnerabilities. Refer to CVE-2020-35198 & CVE-2020-28895 for further details.
		PEP0676724R	Fixed the Cybersecurity Denial of Service Vulnerabilities. Refer to CVE-2019-6806 and CVE-2019-6807 for further details.
		PEP0677516R	Fixed the Cybersecurity Denial of Service Vulnerabilities. Refer to CVE-2018-7857 for further details.
		PEP1008811R	Fixed the Cybersecurity Denial of Service Vulnerabilities. Refer to CVE-2022-37301 for further details.

Cybersecurity Remediation & Mitigation

Schneider Electric is aware of multiple ethernet services vulnerabilities, including **SNMP, FTP, Modbus, and Communication Robustness**. The impact of a successful exploitation of this vulnerability may result in a **denial of service, privilege escalation, access control bypass, or other unauthorized access.**

Customers should immediately apply the following mitigations to reduce the risk of exploitation.

- Enable IP ACL. For information, refer to the User Manual section "Configuring the Ethernet Port of the CPU"
- Disable FTP if not necessary to use. For information, refer to the User Manual section "Configuring the Ethernet Port of the CPU"
- Use controllers and all associated modules only in a protected environment to minimize network exposure and ensure that they are not accessible from outside.

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- Use firewalls/VPNs to protect and separate the control system network from other networks to avoid communication robustness issues.

To ensure you are informed of all updates, including details on affected products and remediation plans, subscribe to Schneider Electric's security notification service here:

https://www.se.com/en/work/support/cybersecurity/security-notifications.jsp

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Version #	Date of Publication	Internal reference	Description
SV**1.7**	**08/2021**	PEP0635234R	Fixed the Cyber Security Vulnerability that memory of BMKC80x03xx could be dumped via UMAS0x28. Refer to CVE-2021-22786 for further details.

Note: **After upgraded to SV1.7, it's NOT allowed to downgrade due to SE Cyber Security policy.**

NOTICE

FIRMWARE UPGRADE

Please refer to "BMKC80x03xx_Firmware_SV1.7_Upgrading_Guideline.pdf" in "BMKC80x03xx_SV1.7.zip" package for details.

Failure to follow these instructions can result in equipment damage.

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Version #	Date of Publication	Internal reference	Description
SV**1.6**	**01/2021**	PEP0594059R	New feature to prevent downgrading firmware to SV<1.6 in new hardware (BMKC802030 PV≥05, BMKC8020310 PV≥06, BMKC8030311 PV≥05) issue.
		PEP0594060R	Fixed that the controller in SV1.5 cannot enter Factory mode.
		PEP0609190R	Improvement of cyber security memory read protection.

INFORMATIONS

Downgrading firmware to SV<1.6 in new hardware (BMKC8020301 PV≥05; BMKC8020310 PV≥06; BMKC8030311 PV≥05) is not possible (due to the hardware compatibility issue).

Commercial Reference	Short Description	New Product Version (PV)	New Software Version (SV)
BMKC8020301	Controller 8 In 12 Out 4 AI	≥05	≥1.6
BMKC8020310	Controller 8 In 8 Out 2 HSC	≥06	≥1.6
BMKC8030311	Controller 8 DI 12 DO 2 HSC 4 AI	≥05	≥1.6

Note: Since BMKC8020300 and BMKC8030310 have been End of Commercialization since the end of Y2019, there is no SV1.6 applicable for these two references.

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Version #	Date of Publication	Internal reference	Description
SV**1.5**	**01/2020**	PEP0546794R	Fixed the cyber security vulnerability of Wind River VxWorks TCP/IP Stack (IP NET)
		PEP0469386R	Enhanced to support a new NAND flash component used in MC80
		PEP0524825R	Fixed that MC80 variables parameter loss after power cycle under a rare condition

Note: **This SV1.5 was not manufactured in factory.**