

# Firmware Compatibility Rules

Modicon M580, Modicon Momentum, and  
Modicon X80 I/O Modules

03/2019

---

© 2019 Schneider Electric. All rights reserved.

---

# Table of Contents

---



About the Book .....	5
Definitions .....	7
Compatibility Rules and Regulations .....	7
X80 I/O Modules .....	7
Communication Adapter Modules .....	8
Communication Head Modules .....	9
Momentum CPUs .....	9
M580 CPUs .....	9
M580 Safety CPUs .....	10



---

# About the Book

---



## At a Glance

### Document Scope

This document addresses the firmware compatibility, exceptions, and recommendations for Modicon modules.

### Validity Note

This documentation is valid for Unity Loader V12.0 and later, and for the product version (PV) and software version (SV) of products listed below.



---

## Definitions

### Abbreviations:

**PV:** product version

**SV:** software version: firmware version

## Compatibility Rules and Regulations

### Guidelines

- 1 Modicon modules are upward compatible. You can update a processor with a later firmware version at any time.
- 2 Schneider Electric recommends that you upgrade the module's firmware to the latest available version.
- 3 Schneider Electric recommends that you do not downgrade a module's firmware.

## ***NOTICE***

### **PRODUCT NO LONGER OPERATIONAL**

For the products with indicated PV listed in the tables below, do not download firmware with a version SV earlier than the one mentioned in these tables.

**Failure to follow these instructions can result in equipment damage.**

## X80 I/O Modules

### Compatibility

This table shows the firmware compatibility among Modicon X80 I/Os:

Module	Description	PV (= or later)	SV
BMXNOE0100	Ethernet 10/100 RJ45	12	2.30
BMXNOE0100H	H Ethernet 10/100 RJ45	8	2.30
BMXNOE0110	M340 FactoryCast Module	9	5.71
BMXNOE0110H	H M340 FactoryCast Module	7	5.71
BMXNOM0200H	Bus Module 2 RS485/232 Ports	6	1.40
BMXNOR0200H	H Bus Module 2 RS485/232 Ports	6	1.40
BMXNOR0200H	Harsh RTU (1 Ethernet Port, 1 Serial Port)	9	1.60
BMXP341000	CPU340-10 Modbus	13	2.30

Module	Description	PV (= or later)	SV
BMXP341000H	H CPU340-10 Modbus	7	2.30
BMXP342000	CPU340-20 Modbus	9	2.30
BMXP3420102	CPU340-20 Modbus CANopen2	8	2.30
BMXP3420102CL	M340 20102 CPU - Cardless	4	2.30
BMXP342020	CPU340-20 Modbus Ethernet	13	2.30
BMXP342020H	H CPU340-20 Modbus Ethernet	9	2.30
BMXP3420302	CPU340-20 Ethernet CANopen2	8	2.30
BMXP3420302CL	M340 20302 CPU - Cardless	4	2.30
BMXP3420302H	CPU340-20 Ethernet CANopen2	8	2.30
BMXP3420ITRB	CPU340-20 Data Center Mgt.	7	2.30
BMXPRA0100	Peripheral Remote I/O Adapter	7	2.30

## Communication Adapter Modules

### Compatibility

This table shows the firmware compatibility among Modicon 140CRA31200 and BM•CRA312•• adapter modules:

Module	Description	PV (= or later)	SV
140CRA31200	1-channel Quantum RIO drop EtherNet/IP adapter	5 (See note.)	2.30
140CRA31200C	1-channel Quantum RIO drop EtherNet/IP adapter coated	5 (See note.)	2.30
BMECRA31210	eX80 performance EIO adapter	5	2.18
BMECRA31210C	eX80 performance EIO adapter coated	5	2.18
BMXCRA31200	X80 standard EIO adapter	7	2.18
BMXCRA31210	X80 performance EIO adapter	7	2.18
BMXCRA31210C	X80 performance EIO adapter coated	7	2.18
<b>NOTE:</b> You cannot downgrade a 140CRA31200 PV05 module with firmware earlier than SV 2.30.			



---

## Communication Head Modules

This table shows the firmware compatibility between Modicon BMENOC0301 communication modules and BMENOC0311 communication modules.

Module	Description	PV (= or later)	SV
BMENOC0301	M580 three-port Ethernet communication module	13	2.15
BMENOC0311	M580 three-port FactoryCast Ethernet communication module	14	2.15

## Momentum CPUs

### Compatibility

This table shows the firmware compatibility among Modicon Momentum M1 and M1E processor modules:

CPU	Description	PV (= or later)	SV
171CBU78090	USB, I/OBUS, RS232/485 RS485	7	2.00
171CBU98090	USB, I/OBUS, RS232/485 10/100 Ethernet	7	2.00
171CBU98091	USB, I/OBUS, RS232/485 10/100 Ethernet GD	7	2.00

## M580 CPUs

### Compatibility

This table shows the firmware compatibility among Modicon M580 processor modules:

CPU	Description	PV (= or later)	SV
BMEP581020	M580 Processor Level 1 for DIOs	9	2.50
BMEP581020H	M580 Hardened Processor Level 1 for DIOs	9	2.50
BMEP582020	M580 Processor Level 2 for DIOs	9	2.50
BMEP582020H	M580 Hardened Processor Level 2 for DIOs	9	2.50
BMEP582040	M580 Processor Level 2 for DIOs and RIOs	9	2.50
BMEP582040H	M580 Hardened Processor Level 2 DIOs and RIOs	9	2.50
BMEP583020	M580 Processor Level 3 for DIOs	9	2.50
BMEP583040	M580 Processor Level 3 for DIOs and RIOs	9	2.50
BMEP584020	M580 Processor Level 4 for DIOs	9	2.50

---

CPU	Description	PV (= or later)	SV
BMEP584040	M580 Processor Level 4 for DIOs and RIOs	9	2.50
BMEP585040	M580 Processor Level 5 for RIOs	3	2.50
BMEP585040C	C M580 Processor Level 5 for RIOs	3	2.50
BMEP586040	M580 Processor Level 6 for RIOs	3	2.50
BMEP586040C	C M580 Processor Level 6 for RIOs	3	2.50

## M580 Safety CPUs

### Restriction

**NOTE:** Do not downgrade a M580 Safety CPU BMEP58•040S from the SV2.50 or upper to SV2.40.