

DESIGO™ PX PXM20, PXM20-E: Download with adapter PXA-C4 User's guide

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1 About this document

1.1 Revision history

Version	Date	Changes	Section	Pages
_02	2013-06-11	Connecting the power supply of PXM20-E	3.2	7
_01	12.08.2009	First edition		

1.2 Reference documents

Ref.	Document title	Type of document	Document No.
[1]	Operating unit PXM20	Data sheet	CA1N9231
[2]	Operating unit PXM20-E	Data sheet	CM1N9234

1.3 Before you start

1.3.1 Copyright

This document may be duplicated and distributed only with the express permission of Siemens, and may be passed only to authorized persons or companies with the required technical knowledge.

1.3.2 Quality assurance

These documents were prepared with great care.

- The contents of all documents are checked at regular intervals.
- Any corrections necessary are included in subsequent versions.
- Documents are automatically amended as a consequence of modifications and corrections to the products described.

Please make sure that you are aware of the latest document revision date.

If you find lack of clarity while using this document, or if you have any criticisms or suggestions, please contact the product manager in your nearest branch office.

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1.3.3 Document use / request to the reader

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1.4 Purpose of this document

In the case of the PXC64-U und PXC128-U, the operating units can be plugged directly into the automation station. This is not the case with the new types PXC100 and PXC200. Therefore, Siemens Building Technologies offers the PXA-C4 adapter.

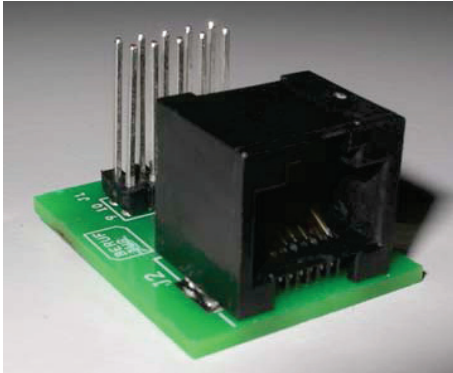
This document describes, for the PXM20 and PXM20-E operating units,

- the Download of the firmware loader and the firmware over the RS232 interface using the PXA-C4 adapter
- the different possibilities of powering the operating unit with AC / DC 24 V.

1.5 Target readers

Service personnel

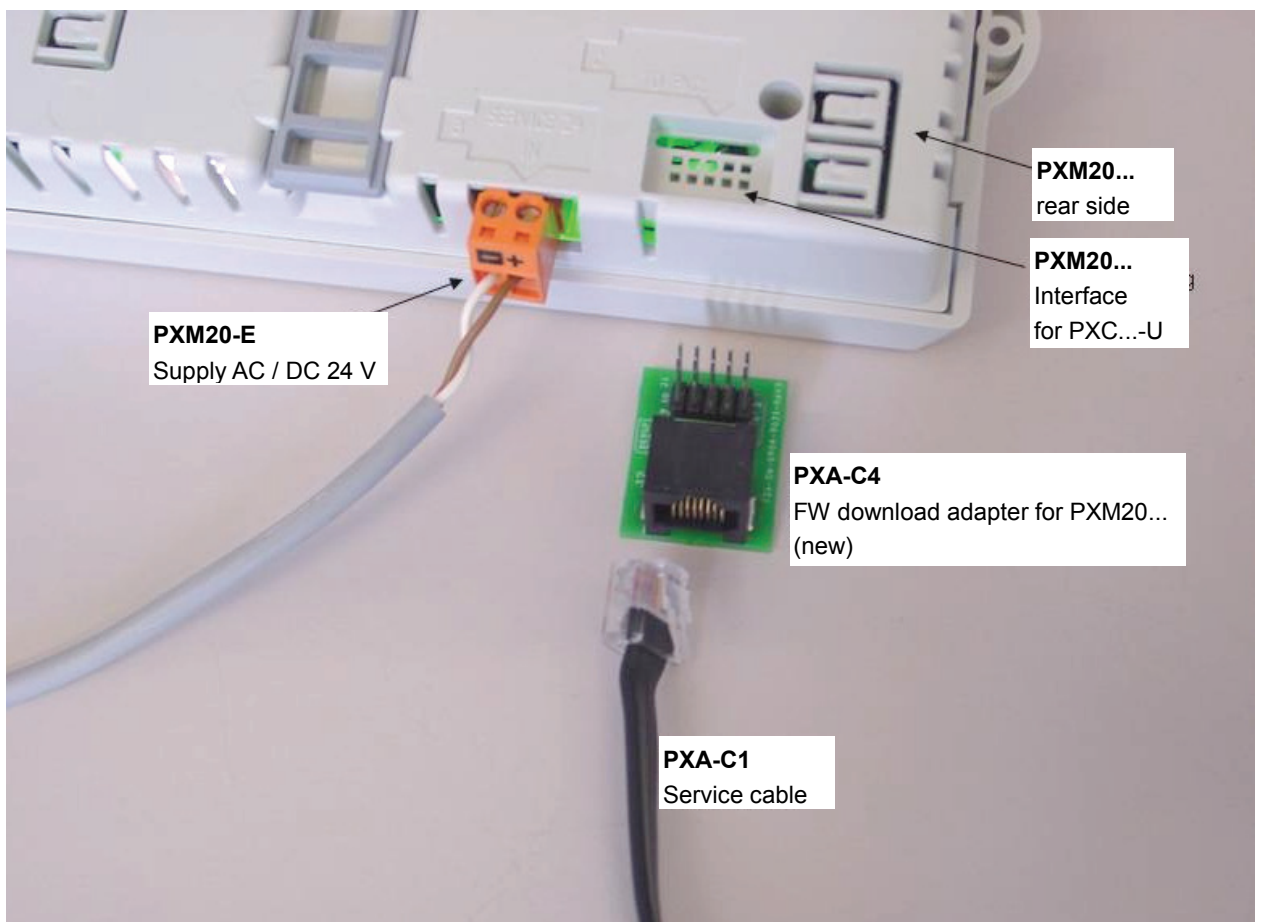
2 Adapter PXA-C4 for the download of the firmware loader and the firmware



Designation FW download adapter for PXM20, PXM20-E
ASN PXA-C4
SSN S55372-C108

The PXA-C4 adapter allows you to download the firmware loader and the firmware into at PXM20-E or PXM20 operator unit. It is required because the new modular PXC100/200 automation station do not support the direct plugging of PXM20 / PXM20-E.

The download operation from the PC (firmware loader and firmware) requires that the PXM20-E / PXM20 operating unit is powered with AC/DC 24 V.



Caution!

PXM20-E: Observe the polarity of the supply ( = GND)

3 Download into a PXM20-E

3.1 Powering the PXM20-E

The supply is done with a separate cable

- either via the supply terminals from a supply unit AC / DC 24 V
- or via a POE supply via an Ethernet cable and the RJ45 interface for Ethernet.

Variant1: Supply via supply terminals



Example 1: Transformer AC 24 V



Example 2: Supply unit DC24 V

Variant 2: Supply via Ethernet cable

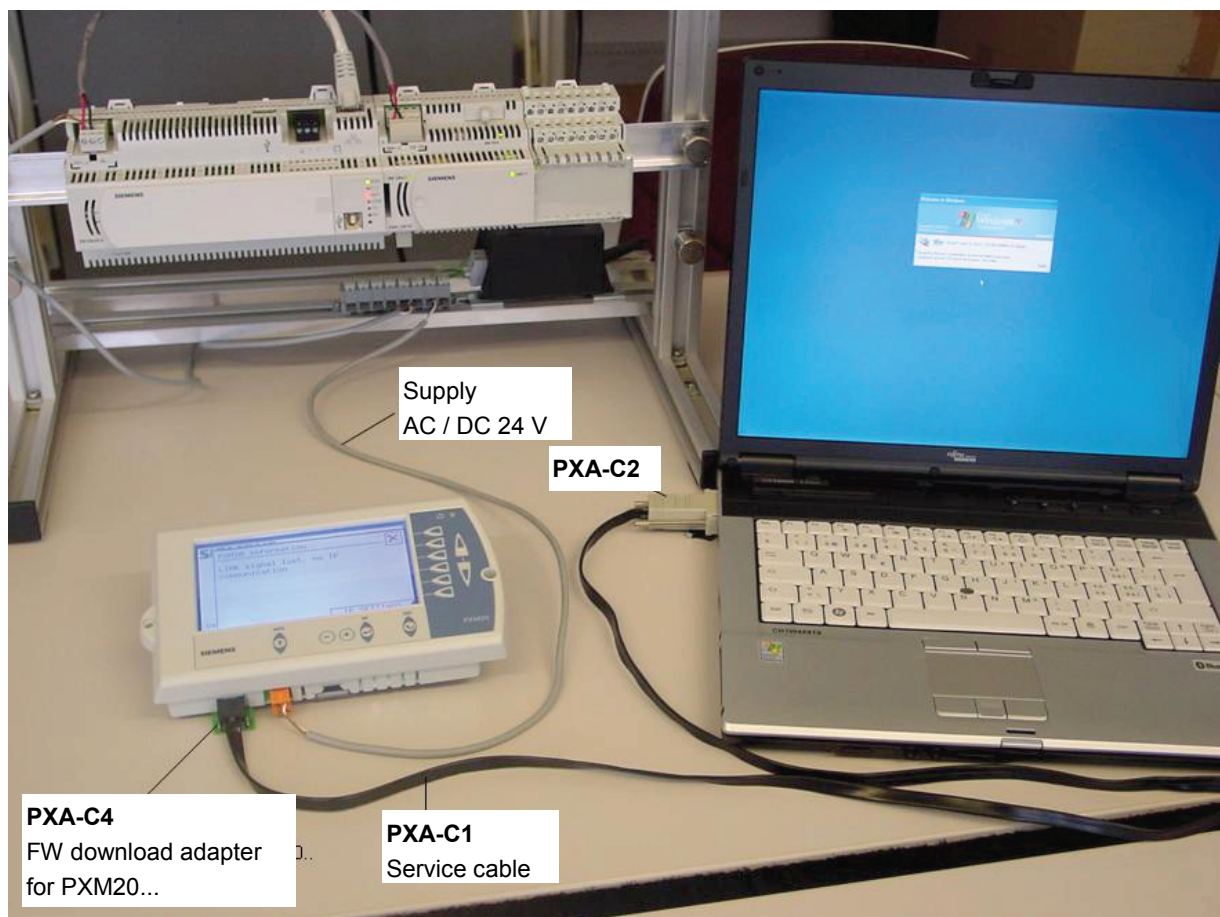


Example 1:
Power over Ethernet Injector
Compatibility: IEEE802.3af




Example 2:
Power over Ethernet Switch
Compatibility: IEEE802.3af

3.2 Download via PXA-C4, PXA-C2, and service cable PXA-C1



Caution!

1. Connect the AC / DC 24 V supply
Observe the polarity ( = GND)



2. Plug the PXA-C4 FW download adapter into the rear side of the PXM20-E
3. Plug the PXA-C2 adapter into the tool PC
4. Connect the PXM20-E and the tool PC by means of the PXA-C1 service cable
5. Perform the download (firmware and associated firmware loader).

4 Download into a PXM20

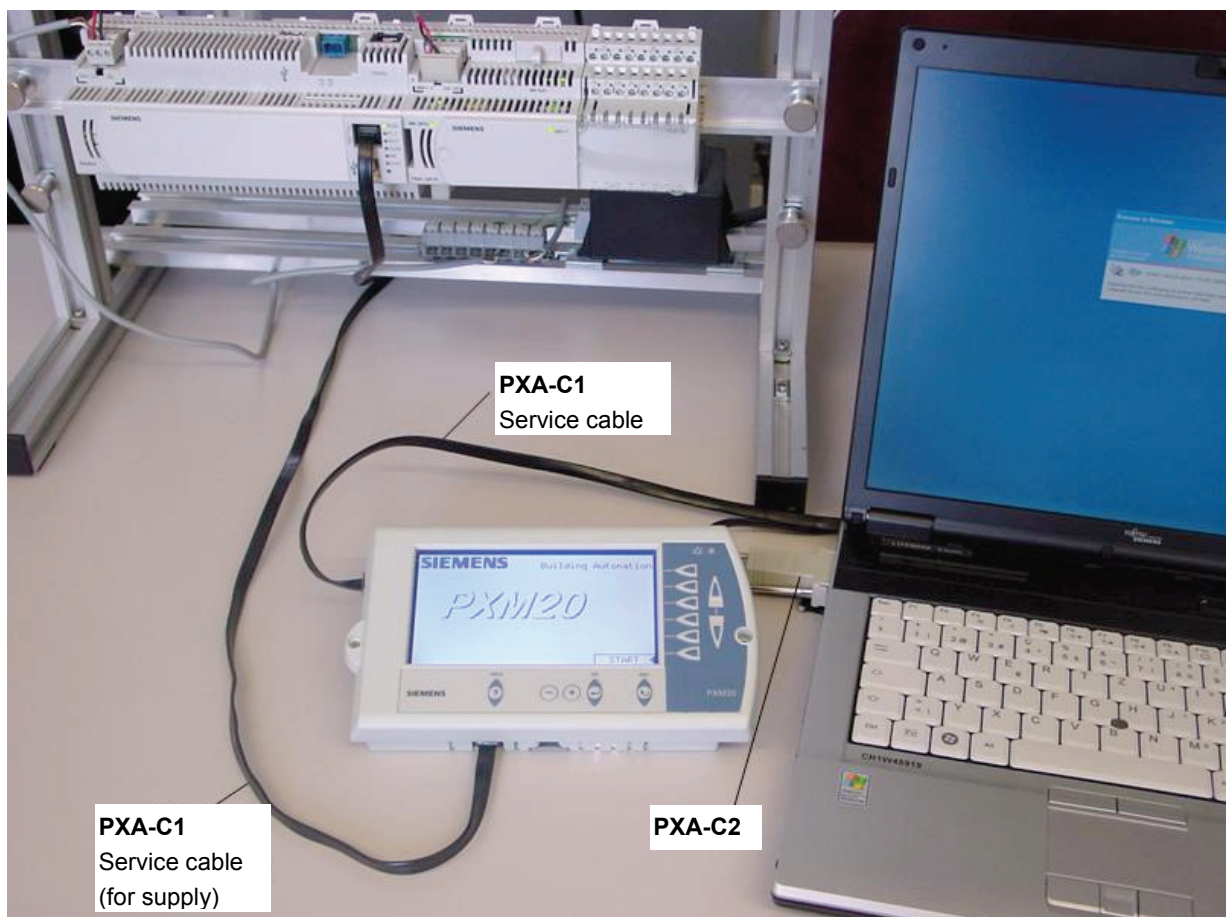
The download of the firmware loader and the firmware into the PXM20 is done

- either via the RJ45 interface for the service tool
- or via the PXA-C4 adapter and a PXA-C1 service cable (as for the PXM20-E) following the description in section 3.2.

4.1 Powering the PXM20

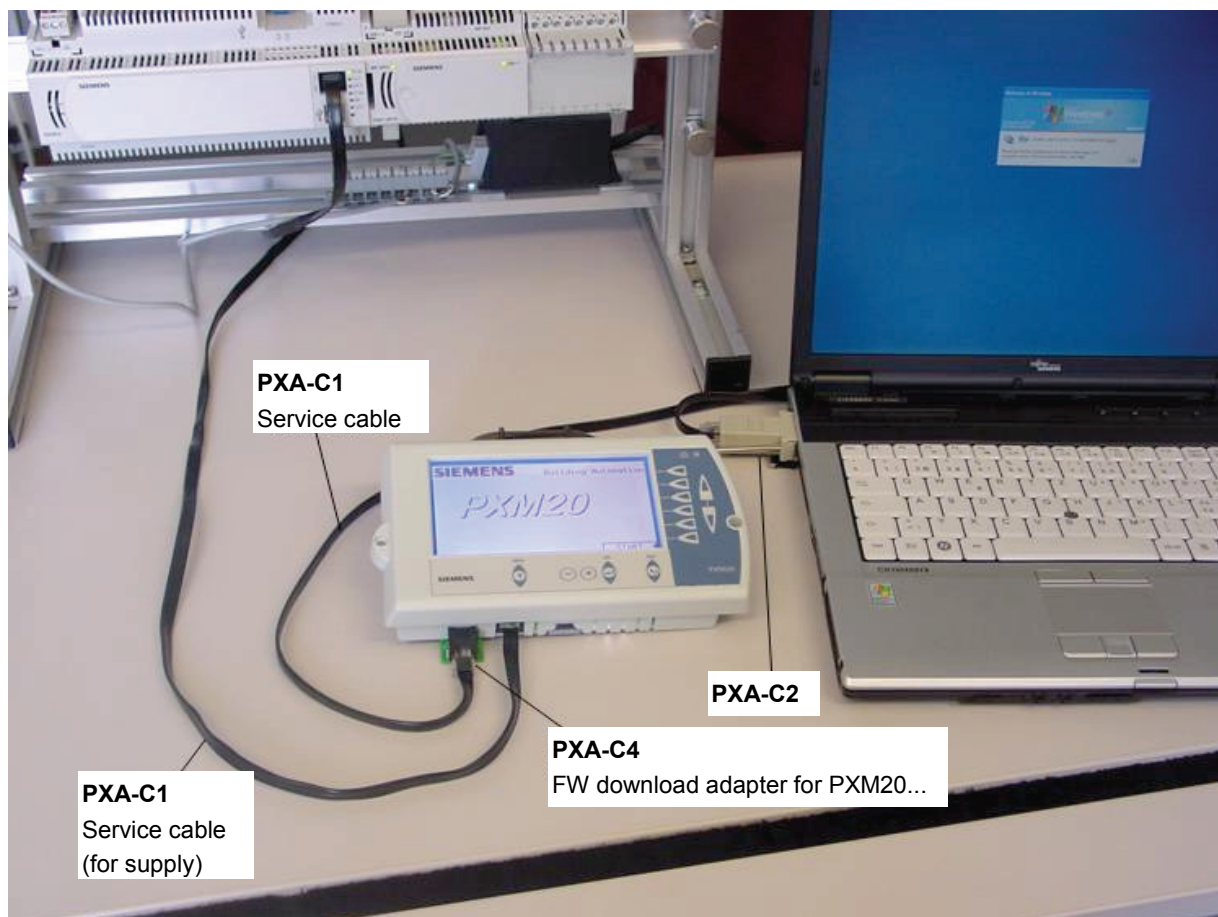
The supply of the PXM20 is done with a separate PXA-C1 service cable via the RJ45 interface from any PXC... automation station.

4.2 Download via PXA-C2 and RJ45 interface



1. Plug the PXA-C2 adapter into the tool PC
2. Connect the PXM20 and the tool PC by means of a PXA-C1 service cable
3. Perform the download (firmware and associated firmware loader).

4.3 Download via PXA-C4 and PXA-C1 service cable



As for PXM20-E:

1. Plug the PXA-C4 FW download adapter into the rear side of the PXM20
2. Plug the PXA-C2 adapter into the tool PC
3. Connect the PXM20 and the tool PC by means of the PXA-C1 service cable
4. Perform the download (firmware and associated firmware loader).

Siemens Switzerland Ltd
Building Technologies Division
International Headquarters
Gubelstrasse 22
CH-6301 Zug
Tel. +41 41-724 24 24
Fax +41 41-724 35 22
www.buildingtechnologies.siemens.com

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