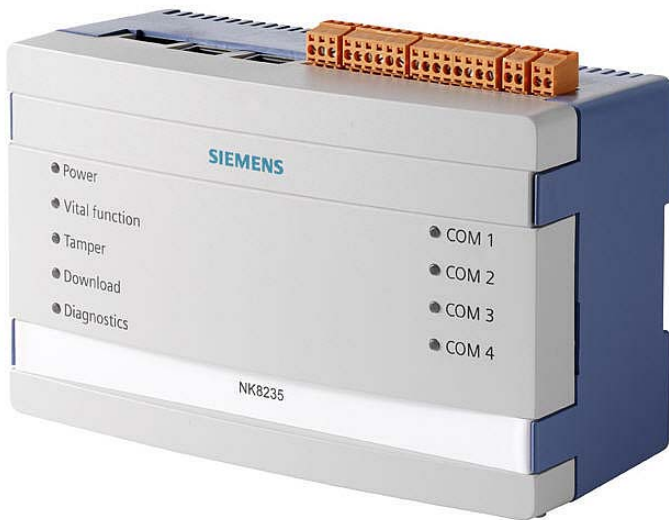


# SIEMENS



## NK8000 MP4.20-01

NK8232 DMS8000 Ethernet Port for a single subsystem  
NK8235 DMS8000 Ethernet Port

## Release Notes

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# 1 Introduction

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DMS8000 software **MP4.20-01** is now available for MM8000, MK8000, MT8001, and NK8000 products.

These release notes provide the characteristics of the new NK8000 network products, including bug corrections and known issues. We recommend reading this document carefully before installing and using the software.

## 1.1 NK8000 family

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The new NK8000 product list includes:

- NK8222 Ethernet port for a single subsystem
- NK8223 Ethernet port
- NK8225 Ethernet port
- **NK8232 Ethernet port for a single subsystem (new)**
- **NK8235 Ethernet port (new)**

These units are to be used as network units for the hosts listed below.

- MM8000 management station MP4.20
- MK8000 OPC server MP4.20
- MT8001 management terminal MP4.20

## 2 What's new in MP4.20-01

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- **NK8000 MP4.20-01 includes the new NK8232 and NK8235 Ethernet Ports**

The new units are based on a new hardware, compliant with RoHS regulations, which will progressively replace the old models. The following features are currently supported by NK823x:

Downstream connectivity to subsystems	<b>NK8232:</b> One subsystem line only (no XLS <sup>1</sup> , no CS6 LON) <b>NK8235:</b> Four subsystem lines (no XLS <sup>1</sup> , no CS6 LON)
Upstream connectivity to hosts	<b>NK823x:</b> CMSDL/IP and CEI-79 (no BACnet/IP <sup>1</sup> )
Interactions	<b>NK823x:</b> local interactions (no network-wide support <sup>1</sup> )
Local I/O	<b>NK823x:</b> non available in this release <sup>2</sup>

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<sup>1</sup> These are temporary limitations that will be removed in a subsequent NK823x firmware version. The firmware in the installed NK823x units can then be easily upgraded remotely using the Composer tool.

<sup>2</sup> Local I/O modules (DF8020, DF8040) are not supported with the current NK823x HW. The local I/O modules (DF8020, DF8040) will be supported in the next NK823x HW version.

NK823x Network connectivity table

Keys:		DMS	MM8000, MK8000, MT8001	MM/MT	MM8000, MT8001
		MM/MK	MM8000 and MK8000	MM	MM8000 only
Connection	Network	NK823x			
	Upstream interface device	NK8232 / NK8235			
	Upstream data-link protocol	CMSDL serial		CMSDL/IP	
	Downstream network	Direct	Cerloop	Direct	Cerloop
Downstream interface device	-	MK7022	-	MK7022	-
Subsystems	FS20 Sinteso / FS720 Cerberus PRO	DMS	DMS	MM/MK	MM/MK
	CS11 AlgoRex EP5 & EP7	DMS		MM/MK	MM/MK
	FC700A				MM/MK
	CS1115 / FC330A				
	CS210, CC60	DMS	DMS	MM/MK	MM/MK
	XLS				
	STT11		DMS		MM/MK
	STT20 / STT2410		MM/MK		MM/MK
	SIGMASYS/D100 (field test only)	MM/MK		MM/MK	MM/MK
	SPC6000 Intrunet				
	CS440	DMS	DMS	MM/MK	MM/MK
	CZ12 / CS4	MM/MK	MM/MK	MM/MK	MM/MK
	CS6 Guarto (via LON interface)				
	SH410 / 420 / Plus Intrunet	DMS		MM/MK	MM/MK
	MF7033 / MM7033		DMS		MM/MK
	DF8000 / CF9000 I/O	DMS		MM/MK	MM/MK
SIMATIC S7 Modbus	MM		MM	MM	
SIMATIC S7 OPC					
SIMATRIX / SIMATRIX NEO	MM/MK		MM/MK	MM/MK	
Philips-Burle video matrices	MM/MK		MM/MK	MM/MK	
Add-on	Autonica BSxxx				
	LIST SCU 2000 (field test only)	MM		MM	MM
	MAXSYS PC601				
	CP100				
	CDDL/CDSF units				
Modbus units					
M5 R-card					

### 3 NK82xx firmware

MP4.20 firmware files are distributed in the following sets of files:

- NK8222 and NK8223 files
- NK8225 files
- **NK823x files**

The firmware is pre-loaded in the NK82xx units and also distributed in the Composer tool environment in compressed (ZIP) files.

**Note:** MP4.20-01 preinstalled firmware on NK823x units includes the Add-on modules that are normally downloaded individually when needed (refer to the Add-on module documentation).

This will be corrected in the next release. For the moment, please note that:



- The installation of the add-on software is still required on the management station for setting the add-on configuration environment. However, unlike what described in the add-on manuals, you do not need to download any MP4.20-01 add-on firmware for NK8232 and NK8235.
- When asking the NK823x internal status from Composer configuration tools (**Read all** button in the **Tools** tab of the NK823x node), the **Add-on information** list will not be populated although all modules are actually installed as core firmware set.

➔ For more information, refer to the NK8000 technical documentation (see 5.2 below).

#### Upgrade

Upgrading from NK822x to NK823x requires a complete hardware replacement. If required, check details with FS DMS customer support.

### Software tools

MP4.20-01 is supplied with a set of engineering tools, either integrated into MM8000/MK8000, or installed separately. Some of the tools are based on Composer and require a software license. The license includes a hardware key and a product authorisation code.



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Some NK823x tools will be available on the PSP support site ( go to <https://psp.sbt.siemens.com/> ). In the PSP data structure, please note the access path: DMS → DMS8000 Management Stations → MM8000 → MP4.20 (DMS8000 Package) → DMS8000 MP4.20-01 Service Release.

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→ For more information, refer to the NK8000 technical documentation (see 5.2 below).

## 4 Known problems & bugs

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This is a list of known problems and limitations present in the current NK823x version.

### General Connectivity

- **LON connections to CS6 Guarato** are not supported.
- **Serial connections to XLS** are not supported<sup>1</sup>.
- **BACnet/IP** upstream network connections are not supported<sup>1</sup>.

### Interactions

- Only **local interactions** can be used. No support is provided in this version for **network-wide interactions**<sup>1</sup>
- NK8000 interactions do not support **Ack and Reset commands** to any subsystem.

### Local I/O

- The current NK823x HW version 02 does not support local I/O on I<sup>2</sup>C (DF8020 and DF8040)<sup>2</sup>.

### Full-modem connections

- Connections requiring full modem signals should make use of COM1 and COM2 only (Modem NK8021, MAXSYS).

### NK8235.4

- COM3 and COM4 ports do not support HW handshaking signals (only TX/RX/GND).

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<sup>1</sup> These are temporary limitations that will be removed in a subsequent NK823x FW version, The FW of installed NK823x can then be easily upgraded from remote using the Composer tool.

<sup>2</sup> Local I/O modules (DF8020, DF8040) are not supported with the current NK823x HW. They will be supported in the next NK823x HW version.

## 5 Documentation

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Some documents were updated to include the new features added in MP4.20-01.

### STEP documentation repository

On the Siemens intranet, the product documentation can be found in the STEP Documentation Repository. The STEP Web Client interface is available at the following address:

<https://workspace.sbt.siemens.com/content/00001123/default.aspx>

The following describes one way to search and find a document:

1. Click on the "STEP WEB Client" image: 
2. Choose "04 Fire -3F" from the "Product Segment" box and select "Activate filter".
3. Select "All" in the Documents section of the Quick Search page and select "Advanced Search".
4. Enter the document number in the "Brochure No." field (e.g. A6V10062415 or 007121) and press "Enter".

**Note:** STEP provides no results when the number of found objects is equal to or greater than 200.

→ To learn about other ways to locate a document, see DMS8000 Quick Reference Guidelines for Search and Finding DMS Documents in STEP (A6V10064704).

### 5.1 NK823x Sales documentation

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**NK8232 Product Datasheet (document no. A6V10238667\_a\_en)**

**NK8235 Product Datasheet (document no. A6V10238669\_a\_en)**

A brief summary of the features provided by the NK8000 units.

**DMS8000 Application & Planning (document no. A6V10063710\_a\_en)**

This document contains a brief discussion of product marketing strategy for all FSP-DMS products, and a moderate level of detail about the architectural configurations supported.

### 5.2 NK8000 Technical documentation

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**NK8000 Installation, Configuration and Commissioning (ICC, document no. A6V10062437\_a\_en)**

The guide provides step-by-step procedures for hardware installation and diagnostics of NK8000 units.

**DMS8000 - Network, Fire, and Intrusion Connectivity Configuration Guides: (documents no. A6V10062425\_a\_en)**

This document contains information about connecting and activating the license key, setting up a new Composer project, and configuring the networks as well as Fire and Intrusion subsystems.

**Release Notes (document no. A6V10276932\_a\_en)**

This document. It includes all information concerning NK823x MP4.20-01.

## 6 Support links and resources

### 6.1 Siemens BT FS

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Our Customer Support Center intranet site at:

[https://intranet10.sbt.siemens.com/about\\_bt/Business\\_Units/fs/Customer+Support+Center/?languagecode=en](https://intranet10.sbt.siemens.com/about_bt/Business_Units/fs/Customer+Support+Center/?languagecode=en)

provides useful information and links. In the Online Support section of this intranet page, software downloads and known product issues can be found in the PSP (password-protected Product Support Platform: <https://psp.sbt.siemens.com/> ).

→ The support mailbox is: [fs.support.sbt@siemens.com](mailto:fs.support.sbt@siemens.com).

### 6.2 Microsoft

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General support about Microsoft Windows can be found at:

→ <http://support.microsoft.com/directory/>

### 6.3 Adobe Acrobat

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To view the PDF document is necessary to install the program Adobe Acrobat Reader. You can find its free version at:

→ <http://www.adobe.com/products/acrobat/readstep.html>





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