

D20MX v2.01 Release Notification

Product Bulletin

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Release Notification of D20MX v2.01

The D20MX Substation Gateway is a specialized computing platform which executes communications and energy management applications for monitoring and control of electrical substations. The D20MX is capable of consolidating data from multiple slave devices connected through communication channels (DCA: Data Collection Applications) and D20 Input / Output Modules in a single database. The D20MX can execute local logic, aggregate data, process data through one of multiple applications (DTA: Data Translation Applications) and report data upstream to master stations through different server protocols (DPA: Data Processing Applications).

The D20MX processor card is a pin-for-pin compatible replacement for all previous generations of the D20 processors, providing the latest revisions of common D20 applications, performance enhancements, and NERC-compliant Cyber security.

NOTICE

D20MX v2.01 is based on v1.91. It enables the D20MX to support up to 4 ethernet ports.

DS Agile Studio v2.2 or higher is required for this release.

GE recommends all users upgrade to D20MX v1.90 or higher. Previous firmware versions are no longer generally available.

Feature added in D20MX v2.01 firmware

- Support for up to 4 Ethernet Ports on the D20MX Gen2 Processor. Firmware v2.01 plus additional hardware adds the capabilities of two additional 100Base-TX ports out the back of the chassis.
 - **Required:** D20MX Gen 2 Processor (see PRBT-0413 D20MX CPU Gen2 Upgrade Introduction).
 - Firmware 2.0 can still be installed on the Gen1 processor, but support for the additional 2 Ethernet ports would not apply.
 - **Required:** D20MX Dual 100Base-TX Media Interface Card + connector cable (see below for how to order)
 - **Required:** D20MX firmware v2.01
 - **Required:** DS Agile Studio v2.20 or greater
 - See D20MX v2.01 Release Notes for more information
- Improved configuration of LAN modes (independent, dual, or redundant) and ICMP Echo parameters.

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Issues resolved in D20MX v2.01 firmware

- Resolved an issue where D20MX crashed while logging a syslog message
- Resolved the issue where the Redundant I/O DTA (A195-0) doesn't work as expected for accumulator type data issue.
- Resolved the issue where D20MX sometimes doesn't pass a control center digital command because DNP3 DCA (B023-0N) discarded the command due to the queue for request transmit being full.
- Resolved 8 other issues. Please refer to the MIS-0095 D20MX Firmware Release Notes v2.01 document for more details.

D20MX ethernet port combinations:

The below table attempts to clarify what D20MX ethernet port options are available. The 3rd and 4th ethernet ports are only available with the Gen2 CPU and as a copper 100 Base-TX option.

D20MX:	Max number of Ethernet Ports:	Front Ports	Rear Ports (Fiber) on separate card	Rear Ports (Copper) on optional separate card
D20MX-A-* with Gen1 CPU (526-3001)	2	2 x 100/1000 Base-TX (copper)	N/A	N/A
D20MX-C-* with Gen1 CPU (526-3003)	2	2 x 100 Base-FX (fiber)	N/A	N/A
D20MX-G-* with Gen1 CPU (526-3005LF)	2	N/A	2 x 100 Base-FX (ST) Or 2 x 100 Base-FX (LC)	N/A
D20MX-A-* with Gen2 CPU (526-3007LF)	4	2 x 100/1000 Base-TX (copper)	N/A	2 x 100 Base-TX (Optional)
D20MX-C-* with Gen2 CPU (526-3008LF)	4	2 x 100 Base-FX (fiber)	N/A	2 x 100 Base-TX (Optional)
D20MX-G-* with Gen2 CPU (526-3009LF)	4	N/A	2 x 100 Base-FX (ST) Or 2 x 100 Base-FX (LC)	2 x 100 Base-TX (Optional)

Ordering:

There are three ways to get a D20MX with four ethernet ports:

- 1) Buy a new D20MX, selecting firmware 2.01 and option G “D20MX dual 100Base-TX Media Interface Card” in Modem Slot 1
<https://store.gegridsolutions.com/ViewProduct.aspx?Model=D20MX>
- 2) Buy a D20MX Kit, selecting firmware 2.01 and D20MX Media Interface Card Option G “D20MX dual 100Base-TX Media Interface Card”
<https://store.gegridsolutions.com/ViewProduct.aspx?Model=D20MX%20Kit>
- 3) Buy a D20MXS-M-A “D20MX dual 100Base-TX Media Interface Card” (with cable) to install into your existing D20MX **with a Gen 2 CPU**.
<https://store.gegridsolutions.com/ViewProduct.aspx?Model=D20MXS>

What’s next?

To upgrade the Firmware and Hardware Support Package to version 2.01:

1. Download and Install **DS Agile Studio v2.2** from the:
 - GE technical support library, under the DS Agile Studio folder, or the
 - GE Grid Solutions Web site.
2. Download the **D20MX v2.01 Documentation ISO File** from the:
 - GE technical support library, under the D20MX folder, or the
 - GE Grid Solutions Web site.
3. Mount the ISO file.
4. Open the D20MX_201 folder
5. Install the D20MX v2.01 package into DS Agile Studio v2.2 or higher.
6. Open the documents folder.
7. Locate the following Technical Note (TN) document:
 - TN0119 D20MX V2.0+ Upgrade Procedure V200 R1.pdf
8. Follow the steps in the technical note to upgrade the firmware to version 2.01.

Additional Information

For more detailed information on the D20MX, see the GE Grid Solutions web site:

<http://www.gegridsolutions.com/multilin/energy/catalog/d20mx.htm>

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Product Support

If you need help with any aspect of your GE Grid Solutions product, you can:

- Access the GE Grid Solutions Web site
- Search the GE Grid Solutions Technical Support library
- Contact GE Grid Solutions Technical Support

GE Grid Solutions Web Site

The GE Grid Solutions Web site provides fast access to technical information, such as manuals, release notes and knowledge base topics.

Visit us on the Web at: <http://www.gegridsolutions.com>

GE Grid Solutions Substation Automation Technical Support Library

This site serves as a document repository for post-sales requests. To get access to the Technical Support Web site, go to: http://sc.ge.com/*SASTechSupport

Contact GE Grid Solutions Product Support

For questions or further product support, please contact the GE support team 24/7 using:

Region	E-mail	Telephone
Global Contact Centre	ga.support@GE.com	+44 1785 250070
Central and East Asia and Pacific	ga.supportCEAP@GE.com	+61 414 730 964
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Document Revision History

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