MT1040A Network Master Pro Release Notes

Product Configuration

The following table shows the relationship between the changed application and modules described in the Revision History.

Main frame/Module	Changed Application
MT1040A	[Framework][Remote]
MU104014A	[ETH][OTN][CPRI][FC][SDH/SONET][SDHPDH][MxH]
MU104015A	
MU104011A	
MU100010A	
MU100011A	
MU100020A	[OTDR][FTTA][OLTS]
MU100021A	
MU100022A	
MU100023A	

Latest Installer File Name

MT1040A

12.05.MT1040A_SW

MX100001A-Setup-12.05-xxxxx.exe

MX100003A-2.0.0.62-xxxxx.exe

The following table shows the latest software and corresponding operation manuals.

Operation Manual	Doc. No.	Version
MT1040A Transport Modules Operation Manual	M-W4038AE	11 th
MT1000A/MT1100A/MT1040A Remote Scripting	M-W4041AE	8 th
Operation Manual		
MT1000A Network Master Pro Transport modules	M-W3933AE	25 th
Operation Manual		
MT1000A Network Master Pro OTDR Modules	M-W3810AE	22 nd
Operation Manual		
MT1000A Network Master Pro OTDR Modules	M-W3859AE	8 th
Remote Scripting Operation Manual		
MX100003A Scenario Edit Environment Kit Operation	M-W4042AE	4 th
Manual		

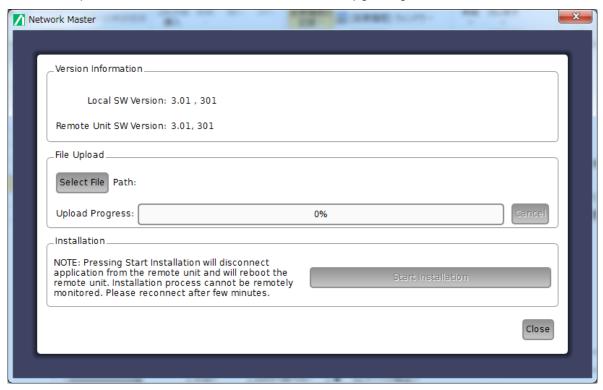
Installation Procedure

- 1. When using battery, make sure that there is 40% (or more) power in the battery of the instrument.
- 2. Remove the USB memory from the MT1040A.
- 3. Press the power button to shut down the MT1040A. Never force to power off by holding the power button pressed for several seconds.
- 4. Remove the AC adapter or cable and see the power button turns to gray.
- 5. Copy the installer (X.XX.MT1040_SW) to an empty USB memory stick formatted to FAT32 or NTFS file system.
- 6. Insert the USB memory stick into MT1040A.
- 7. Boot MT1040A to start installer.
 - The instrument will detect the USB stick, and start installing the software. After the installation has finished the instrument will reboot and start with the new software.
- 8. Remove USB stick after installation is complete

You can check the installed version at System Information screen.

Installation Procedure via network.

- 1. When using battery, make sure that there is 40% (or more) power in the battery of the instrument.
- Install the Control Software(MX100001A) on your PC.
 (Please refer "3.4.1 Installation of Control Software" on MT1040A Transport Modules Operation Manual.)
- Configure the Ethernet communication between the Control Software(MX100001A) and MT1040A.
 (Please refer "3.4.2 Connection and Setup" on MT1040A Transport Modules Operation Manual.)
 Select the update tab on Control Software to show the upgrading box.



- 4. Touch Select File to launch the dialog box.
- 5. Select the software file. Progress bar shows Upload Progress. Touching Cancel aborts the file uploading.
- After file uploading finishes, touch Start Installation.
 Touching Start Installation will reboot the Network Master. Installation process cannot be remotely monitored. Please reconnect after several minutes.

Revision History

Version	Date	Description
12.05	2022-02-22	Key Added Features
		➤ [ETH] Added N Port BERT application. (14389)
		Adding software option supports measurement using
		breakout-type 400G optical transceivers.
		➤ [ETH] Added support for use of OIF 400ZR-compliant
		QSFP-DD optical transceivers. (14388)
		➤ [ETH] Added 400G and 200G support to SAT(Y.1564)
		application. (14390)
		Fixed bugs
		➤ [ETH] At 400G measurement with BERT application, fixed bug
		causing PRBS Sync Alarm detection when receiving Frame with
		mismatched address filter when "Include addresses in frame
		filter on receiver" set. (13281)
		➤ [ETH] At 400G rate setting with BERT application, fixed bug
		causing PRBS Sync Alarm detection due to loss of Rx signal.
		(14391)
		➤ [RoE] When using MU100011A module, fixed bug causing
		dual-port mis-selection even when not using 25G eCPRI/RoE
		Dual Port Ability function. (14342)
		➤ [ETH] When creating report after loading measurement results,
		fixed bug preventing output of LOS item with and without optical
		transceiver. (13916)
		➤ [ETH] [MxH] When using 25GbE or faster interface, fixed bug
		causing BER_Alarm when MPLS protocol set. (14401)
		- MU104011A/14A/15A Module: Occurs with V12.04 or later
		- MU100011A Module: Occurs with V12.00 or later
		[VIP] Fixed bug preventing operation of Auto Capture function
		when using G0306B. (14356)
12.04	2021-12-20	Fixed bugs
		➤ [ETH] [MxH] Fixed bug causing screen freeze when receiving
		packets at destination UDP port with different setting to send
		source UDP port when using UDP protocol at either Ethernet or
		CPRI/RoE BERT applications (12575)
		➤ [ETH] Fixed bug causing non-existent FCS error when setting
		interface of 10GbE or less at Reflector application (13954)
		➤ [ETH] Fixed bug causing status alarm when long-term

			measurement stops (14085)
		>	[SDH/SONET] Fixed bug causing incorrect display of AU3
			pointer monitor results (14089)
		>	[ETH] Fixed bug causing lost configuration and inability to test
			when executing One-way Test with VLAN enabled at Y.1564
			application (14139)
		>	[ETH] Fixed bug preventing error identification when receiving
			ICMP reply packet including packet length error of 463 or more
			bytes at 10GbE or slower interface (14273)
		>	[ETH] Changed initialization of FEC settings when switching
			interface to 100GbE (14053)
		>	[Remote][ETH] Fixed bug causing free change of
			latency-measurement timestamp resolution at SCPI control;
			fixed parameter to 5 ns (14193)
		>	[ETH] Fixed bug preventing correct reflection of FEC threshold
			setting (14209)
		>	[Remote][ETH] Fixed bug causing instrument restart when
			setting IFG lower threshold at SCPI control (14271)
		>	[MU100090B][Framework] Fixed bug causing screen freeze
			when rebooting with GPS/GNSS setting in fixed-location mode
			and clicking GPS/GNSS icon (14301)
12.03	2021-10-04	• Fi	xed bugs
		>	Fixed bug in Mon/Gen application v7.01 and later preventing
			sending at set burst interval. (13893)
		>	[ETH][OTN][SDH][CPRI/RoE][FC] Fixed bug causing crash
			when report output set to include Event Log and CSV format.
			Limited number of report output logs; to output all the logs, use
			CSV output from Event Log in application (13579)
		>	[ETH] Fixed bug in Ping application causing output of IPv4
			address instead of IPv6 address in port setting report when
			outputting measurement results using IPv6 as PDF report.
			(14083)
		>	[Framework] Now displays location name in GPS/GNSS report
			column when fixed position setting enabled at MU100090B.
			(13992)
		>	[ETH][Framework] Now displays changes in MU100090B status
			in Transport application Event Log. (13865)
		>	[Framework] Now permits holdover guide setting only when
	1	1	

		MU100090B-001 option (Multi-band) installed. Displays [Ready for Holdover] only when Holdover guide not enabled. (13873) Framework] Fixed bug preventing GPS/GNSS reception when Fixed Position setting enabled at MU100090B. (13963) Framework] Revised calculation error in permissible drift amount at Holdover using MU100090B. (13993)
		 [Framework] Fixed bug enabling QZSS Setting when no MU100090B-002 option installed (Multi-GNSS). (13928) [Framework] Fixed bug sometimes causing OFF WLAN setting to revert mistakenly to ON. (13973)
		 [ETH] Fix bug at IEEE1588v2 Time source [Atomicclock] setting causing drift in time at Master side when source is Internal and not GPS. (14081) [ETH][MU104011A/MU104014A/MU104015A] Revised latency measurement results. (14132)
12.02	2021-08-30	 Key Added Features Supports configuration with combination of two transport modules; as a result, one unit can perform both dual-port 400GbE and quad-port 100GbE measurements. (14087) [ETH] Added 200GbE measurement function for MU104014A module. (14086) [ETH] Added support for use of Single Lambda MSA-compliant QSFP28 optical transceivers. Fixed bugs [Framework] Fixed bug causing power cut at continuous operation; update firmware if using V12.00. (14075) [Framework] Fixed bug causing notification about power supply connector. (14075) Fixed bug when using QSFP-DD causing optical transceiver configuration error. (13933)
12.00	2021-05-24	 Key Added Features [New HW] Added High Performance GNSS Disciplined Oscillator MU100090B module to product line supporting GPS, Galileo, GLONASS, Beidou, and QZSS. (13901) [Ethernet] Added SyncE support for VLAN tags. (13907) Fixed bugs [Ethernet][MU100011A] Fixed bug causing incorrect lane settings for VOD, Pre, Post, and DEF values at QSFP28 and

		CFP4 transceiver settings. (13851)
	>	[Ethernet] Fixed bug causing application crash when outputting
		IEEE1588v2 log output and setting long-term measurement.
		(13755)
	>	[Ethernet] Fixed bug in SyncE Frame Capture function
		sometimes enabling extra size-0 file. (13782)
	>	[Framework] Fixed bug preventing correct folder specification
		setting when removing USB memory while results folder set to
		USB. (13880)
11.08 2021	1-03-18 ● K	ey Added Features
2021	1-03-30	[Framework] Added WLAN communications function using
		USB WLAN dongle.
	>	[ETH] Added OAM function for Reflector application. (13651)
	>	[ETH] Added function to Reflector application to respond to
		VLAN ARP and ping (12517)
	>	[SEEK][Framework][MX109020A] Added Opt-003 to
		MX109020A supporting upload of SEEK scenario execution
		results to cloud storage and customer's server (13833)
	>	[Framework][MX109020A] Added function for updating
		instrument connected to MX109020A to latest firmware version
		(13832)
	>	[OTDR] Added fiber length check Enable/Disable function When
		this setting is Enable, the fiber length is examined prior to
		measurement and if it exceeds the distance range, the optical
		pulse output interval is adjusted automatically to prevent
		generation of unwanted reflections from points other than the
		event point. When this setting is Disable, the time until
		measurement starts is shortened. This function is always
		enabled for older version, but can be enabled/disabled in this
		version.
		When the language setting is not Japanese, the Enable default
		is set automatically at a version upgrade. (13698)
	● F	ixed bugs
	>	[ETH] Fixed bug causing normal Link status even when
		HighSER detected at 400GbE interface. (13645)
	>	[ETH] Fixed bug causing non-detection of Local Fault at
		Link-down at 400GbE interface. (13562)
	>	[ETH][OTN][NoFrame] Added improvements to MU10401xA

		LL 00ED DD (00ED00/00ED
		module QSFP-DD/QSFP28/QSFP+ start sequence (13715)
		[Wireshark] Fixed bug causing error when using eCPRI decode
		Lua script when using Wireshark version later than 3.4 on PC. (13682)
		> [ETH] Fixed bug preventing recognition of 1519-byte Frame
		over size error. (13679)
		> [SEEK] Fixed error message when SEEK results file name
		includes illegal character (/, !, ?, etc.). (13644)
		 ETH] Fixed bug preventing correct generation of report file at long-term measurement at RFC2544 application. (13507)
		> [SDHPDH] Fixed bug preventing communications at E3 and
		DS3 interfaces (13744)
		 [ETH] Fixed bug causing instrument crash when executing IPv6 Stateless for IEEE1588 (13743)
		➤ [ETH] Fixed bug causing detection of unintentional frame loss
		when executing burst test in RFC2544 application (12818)
		➤ [RFS] Fixed bug preventing display of cursor when USB mouse
		connected (13800)
		➤ [SEEK] Fixed a bug where the MU104011A or MU104015A
		module was not displayed in the MX100003A Scenario Edit
		Environment kit. (13861)
11.05	2021-02-04	Key Added Features
		➤ [Framework] A warning pop-up is added for AC adapter
		connection. Please follow the instructions as shown.(13767)
11.04	2020-09-30	Key Added Features
		> [ETH] Added support for 400GbE FEC Degrade function.
		(13620)
		 Detect/Insert Remote/Local Degrade
		➤ [ETH] Changed default symbol error rate threshold setting from
		1E-6 to 1E-4 due to FEC symbol error status at 400GbE
		interface. (13639)
		Fixed bugs Fixed bug couping continuing frame loss count after
		> [ETH] Fixed bug causing continuing frame loss count after
		receiving normal frame at Link-down for 1 or more minutes
		during 400GbE frame loss measurement. (13577)
		> [ETH] Fixed bug causing measurement result output without
		errors and no saved LOFA counter history log. (13624)

	T	
		> [ETH][RoE] Fixed bug causing sending of IFG of less than 5
		bytes at line rate of at least 80% at following frame size(s) at
		25GbE interface. (13559)
		> [ETH] Fixed bug causing Ping application crash at output of
		PDF report after long-term measurement covering several days.
		(13410)
		> [ETH] Fixed bug causing generation of file with missing data at
		Ping application when outputting PDF report after long-term
		measurement of several days. (13408)
		> [CPRI/OBSAI] Fixed bug preventing correct bit-rate setting at
		startup and file loading. (13612)
		 Removed following security vulnerability. (13544)
		→ X11 server at MT1000A/MT1100A/MT1040A GUI accepts
		unrestricted connections from host
11.03	2020-08-11	Initial release. Support for the following products:
		MT1040A Network Master Pro
		MU104014A 400G(QSFP-DD) Multirate Module
		MU104015A 400G(OSFP) Multirate Module
		MU104011A 100G Multirate Module
		MU100010A 10G Multirate Module
		MU100011A 100G Multirate Module
		MU100020A OTDR Module 1310/1550nm SMF
		> MU100021A OTDR Module 1310/1550/850/1300nm SMF/MMF
		MU100022A OTDR Module 1310/1550/1625nm SMF
		MU100023A OTDR Module 1310/1550/1650nm SMF
		MU100090A High Performance GPS Disciplined Oscillator
	1	

Known Problems

	Version	Description
MT1040A	V12.05	• [ETH] When using over 25G Interface, bug may prevent
MU104014A		error recognition when receiving ICMP reply packets
MU104015A		including error with packet length of more than 463 bytes.
MU104011A		(12819)
MU100010A		
MU100011A		