MD1230/MP1590 Family Release Notes

for Version 9.6

This Release Note covers the MD1230/MP1590 Family of products. This document contains the following Items.

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1. Manuals

This upgrade contains the following manuals.

Model No.	Operation Manual	Edition
W1927AE	MD1230B Data Quality Analyzer Operation Manual	32.0
W2420AE	MP1590B Network Performance Tester Operation Manual	22.0
W1931AE	Ethernet Module Operation Manual	25.0
W1932AE	MU120103A/B 2.5G (1.31) Module MU120104A/B 2.5G (1.55) Module MU120105A 10G (1.31) Module MU120106A 10G (1.55) Module Operation Manual	19.0
W2121AE	MU120119A OC-3/12 STM-1/4 (1310 nm) Module MU120120A OC-3 STM-1 (1310 nm) Module Operation Manual	12.0
W2424AE	MU150100A 10/10.7G Unit Operation Manual	10.0
W2425AE	MU150101A 2.5/2.6G EoS Unit Operation Manual	12.0
W3218AE	MU150110A Multirate Unit Operation Manual	5.0
W2427AE	MU150121A/22A/23A/34A 10/10.7G Optical Unit (Tx) 10/10.7G Optical Unit (Rx Narrow) 10/10.7G Optical Unit (Rx Wide) 10/10.7G Optical Unit (Tx Ex. Mod) Operation Manual	8.0
W2589AE	MU150121B 10/10.7G Optical Electrical Unit (Tx) MU150123B 10/10.7G Optical Electrical Unit (Rx Wide) Operation Manual	7.0
W2590AE	MU150124B 10.3G Optical/ Electrical Unit (Rx Wide) Operation Manual	6.0
W2426AE	MU150125A 10/10.7G Jitter Unit Operation Manual	7.0
W2870AE	MU150135A 10/10.7G Optical Unit (XFP) Operation Manual	5.0
W1928AE	MX123001A Data Quality Analyzer Control Software Operation Manual	25.0
W2421AE	MX159001B Network Performance Tester Control Software Operation Manual SDH Edition	13.0
W2422AE	MX159001B Network Performance Tester Control Software Operation Manual SONET Edition	13.0
W1929AE	MD1230B Remote Control Operation Manual	24.0
W2423AE	MP1590B Network Performance Tester Remote Control Operation Manual	10.0
W2122AE	Tcl Interface Operation Manual	8.0
W2134AE	Application Traffic Monitor Operation Manual	8.0
W2906AE	MD1230B-26 PPPoE Operation Manual	2.0
W2352AE	MP1590A/B-30 High Precision Jitter Analysis Operation Manual	4.0

2. Version Information

This table shows the firmware versions for main units and modules. The version information can be confirmed either at the dialog displayed by clicking the [?] button at the top right of the Main Application screen or at the [Version] tab of the Setup Utility.

Model Name		Versions	
MD1230B	**Data Quality Analyzer**	**Version 9.06.21**	
MP1590B	**Network Performance Tester**		
MX123001A	**Data Quality Analyzer Control Software**		
MX159001B	**Network Performance Control Software**		
MD1230B	Data Quality Analyzer	boot apl FPGA/GPS FPGA/DCS	4.00.03 9.06.10 4.00.02 4.00.00
MP1590B	Network Performance Tester	boot apl CPU MAX FPGA DCS MAX FPGA	2.02.00 9.06.10 2.02.00 or 2.06.00 2.02.00 or 2.04.00
MU120101A	10M/100M Ethernet Module	PCI FPGA Tx/Rx H8	1.00.00 4.01.00 3.00.01
MU120102A	Gigabit Ethernet Module	PCI FPGA Tx/Rx H8	1.00.00 8.01.01 3.00.01
MU120103A MU120104A	2.5G(1.31) Module 2.5G(1.55) Module	PCI FPGA/Tx SDH FPGA/Tx PPP FPGA/Rx SDH FPGA/Rx PPP H8	1.00.00 2.00.06 3.00.08 2.00.03 3.00.06 3.00.01
MU120103B MU120104B	2.5G(1.31) Module 2.5G(1.55) Module	PCI FPGA/Tx SDH:G FPGA/Tx PPP:G FPGA/Rx SDH:G FPGA/Rx PPP:G FPGA/Tx SDH:P FPGA/Tx PPP:P FPGA/Rx SDH:P FPGA/Rx PPP:P H8	1.00.00 3.00.04 3.00.07 3.00.12 3.00.12 3.00.07 3.00.09 3.00.08 3.00.18 3.00.01
MU120105A MU120106A	10G(1.31) Module 10G(1.55) Module	PCI FPGA/Tx SDH FPGA/Tx PPP FPGA/Rx SDH FPGA/Rx PPP H8	1.00.00 3.00.04 3.00.08 3.00.02 3.00.08 3.00.01
MU120111A	10/100M Ethernet Module	PCI FPGA Tx/Rx boot apl	1.00.00 8.01.00 2.01.03 9.00.08
MU120112A	Gigabit Ethernet Module	PCI FPGA Tx/Rx:D FPGA Tx/Rx:A boot apl	1.00.00 8.01.01 8.01.01 2.01.03 9.00.08
MU120118A	10 Gigabit Ethernet Module	PCI FPGA/Tx FPGA/Rx boot apl	1.00.00 8.01.00 9.00.00 3.04.01 9.00.08

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Model Name		Versions	
MU120118B	10 Gigabit Ethernet Module	PCI	1.00.00
MU120118C	10 Gigabit Ethernet Module	FPGA/Tx	8.01.00
		FPGA/Rx	9.06.01
		boot	3.04.01
		apl	9.00.08
MU120119A	OC-3/12 STM-1/4 Module (1310 nm)	PCI	1.00.00
MU120120A	OC-3 STM-1 Module (1310 nm)	FPGA Tx/Rx	2.02.08
		boot	2.02.01
		apl	2.02.36
MU120121A	10/100/1000M Ethernet Module	PCI	1.00.00
MU120122A	Gigabit Ethernet Module	FPGA Tx/Rx	9.04.01
		FPGA PPPoE Tx/Rx	1.00.08
		boot	4.00.02
		apl	9.00.08
		apl PPPoE	1.00.07
MU120131A	10/100/1000M Ethernet Module	PCI	1.00.00
		FPGA Tx/Rx	9.06.02
		boot	7.00.01
		apl	9.00.08
MU120132A	Gigabit Ethernet Module	PCI	1.00.00
		FPGA Tx/Rx	9.06.02
		boot	7.00.01
		apl	9.00.08
MU120138A	10 Gigabit Ethernet Module	PCI	1.00.00
		FPGA Tx/Rx	9.06.05
		boot	9.00.00
		apl	9.00.08
MU150100A	10/10.7G Unit		3.11.00
		MAX FPGA	1.00.00
MU150101A	2.5/2.6G EoS Unit		3.20.00
		MAX FPGA	2.00.00
		H8	3.00.01
MU150110A	Multirate Unit		1.20.00
		MAX FPGA	1.00.00
		apl Rx	1.00.43
MU150121A	10/10.7G Optical Unit (TX)		1.00.00
MU150121B	10/10.7G Optical/Electrical Unit (TX)	MAX FPGA	1.00.00
MU150122A	10/10.7G Optical Unit (RX NARROW)		
MU150123A	10/10.7G Optical Unit (RX WIDE)		1.00.00
		MAX FPGA	1.01.00
MU150123B	10/10.7G Optical/Electrical Unit (RX WIDE)		1.00.00
MU150124A	10.3G Optical Unit(RX WIDE)	MAX FPGA	1.00.00
MU150124B	10.3G Optical/Electrical Unit (RX WIDE)		
MU150134A	10/10.7G Optical Unit (TX EX. MOD)		
MU150125A	10/10.7G Jitter Unit		2.00.00
		MAX FPGA	1.00.00
MU150135A	10/10.7G Optical Unit(XFP)		1.04.00
		MAX FPGA	1.00.00

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3. New added functions

This release adds the following new functions:

➢ Application Traffic Monitor compatible with 10 Gigabit Ethernet [*1]

➢ MX123001A/MX159001B Control Software compatible with Windows7 [*2]

*1: Option 29 needs to be installed in the MD1230B/MP1590B. The MU120138A interface module is required.
*2: The MX159001B is usable only for 32bit. The operations of the following options cannot be guaranteed in Windows7.
・MX123001A-06 TCL INTERFACE
・MX123001A-07/MX159001B-01 RS-232C CONTROL
・MX123001A-09/MX159001B-02 GPIB CONTROL
・MX123001A-01 REMOTE CONTROL SOFTWARE FOR MD1230A-04
・MX123003A REMOTE CONTROL SOFTWARE FOR MX123002A

4. Specification Changes and Bug Fixes

This section lists the corrections and changes implemented in this release. * For previous changes,

please contact our sales staff.

Model Name	Change
MD1230B Data Quality Analyzer MP1590B Network Performance Tester	➢ [CM1130:1300] The product key for software installer is not necessary on version 9.06.10 or later
Ethernet Modules MU120101A MU120111A 10/100M Ethernet Module MU120102A MU120112A MU120122A MU120132A Gigabit Ethernet Module MU120121A MU120131A 10/100/1000M Ethernet Module MU120118A MU120118B MU120118C 10 Gigabit Ethernet Module	➢ [CM1130:1331] Fixed the bug that causes crash when executing RFC2544 automatic test on multi user environment. ➢ [CM1130:1332] Fixed the bug that causes abnormal transmission to unknown MAC destination when executing RFC2544 Recover Test. ➢ [CM1130:1331] Fixed the bug that causes crash when executing RFC2544 automatic test at long term.
MU120131A 10/100/1000M Ethernet Module	➢ [CM1130:1320] Fixed bug that causes abnormal number of captured frames when executing frame capture. (Ver9.06.17 or later) ➢ [CM1130:1326] Fixed bug that causes the out of range on FlowID multi flow counter. (Ver9.06.17 or later) ➢ [CM1130:1313] Fixed bug that causes abnormal transmission when Default button of Port Setting is executed more than

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Model Name	Change
	once. (Ver.9.06.12 or later)
MU120132A Gigabit Ethernet Module	➢ [CM1130:1320] Fixed bug that causes abnormal number of captured frames when executing frame capture. (Ver9.06.17 or later) ➢ [CM1130:1326] Fixed bug that causes the out of range on FlowID multi flow counter. (Ver9.06.17 or later) ➢ [CM1130:1311] Changed response data of :PORT:ETHernet:LSPeed? to S1000M. (Ver.9.06.12 or later)
MU120118B MU120118C MU120138A 10 Gigabit Ethernet Module	➢ [CM1130:1303] Changed count conditions of LF and RF. (Ver.9.06.12 or later) ➢ [CM1130:1299] Fixed bug that causes abnormal Tx stream transmit value when MAC address or VLAN ID is random and mask area is different between each stream (Ver.9.06.08 or later) ➢ [CM1130:1335] MU120138A: Fixed bug that causes FCS Error Frame Transmission when Frame Length is set to random or increment. (Ver.9.06.19 or later)
MU150100A 10/10.7G Unit	➢ [CM1130:1330] Fixed bug that causes sometimes no output of Rcv Clock when changing frequency to 622M on MU150100A. (Ver9.06.17 or later)
MU150110A Multirate Unit	➢ [CM1130:1327] Fixed bug that causes no detection of NoFrame syncloss on MU150110A when connecting 10G Electrical Cable. (Ver9.06.17 or later) ➢ [CM1130:1303] Changed count conditions of LF and RF. (Ver.9.06.12 or later) ➢ [CM1130:1295] Fixed bug that causes abnormal BIP2 error count on Multichannel Mode (Ver. 9.06.05 or later.) ➢ [CM1130:1321] Fixed bug that causes delay measurement error after starting MP1590B. (Ver.9.06.14 or later)
Option 03 (MD1230B/MP1590B) Option 10 (MX123001A) Ethernet Control	➢ [CM1130:1298] Fixed bug that need pushing "Local" button after network down under remote control (Ver.9.06.07 or later) ➢ [CM1130:1315] MU150110A: Fixed bug that needs wait time to get 10Gigabit Ethernet TX/RX frame count by remote command (Ver.9.06.13 or later)
Option 10 RFC2889 Benchmarking Test	➢ [CM1130:1308] Fixed bug that transmission is not Round Robin fashion on fully meshed throughput test. (Ver.9.06.12 or later) ➢ [CM1130:1296] Fixed bug that cause error when VLAN is enabled on RFC2889 Errored Frames Filtering test (Ver.9.06.06 or later)
MP1590B Option 30 High Precision Jitter Analysis	➢ [CM1130:1324] Fixed bug that causes "Serial communication error" when using *Setup Utility - Help - Initialize*. (Ver.9.06.16 or later)
MP1590B Network Performance Tester MX159001B Control Software	➢ [CM1130:1324]Corresponded to "Fast Jitter Tolerance" function. (Ver.9.06.20 or later)

5. Known Problems

Model Name	Known Bug Contents
MD1230B Data Quality Analyzer	➢ [CM870: 0907] When Rate Counter is selected at the counter function graph display and the Resolution is other than 1 s, the

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	value becomes the total value.
MP1590B Network Performance Tester MX123001A MX159001B Control Software	➢ [CM1130:0935] The Group function remote command does not operate correctly when displaying Group Counter at the screen. Recovery does not require selecting a different group from the displayed group using the remote command. To use Group function remote commands, either display the same group at the screen or move to a non-Group screen. ➢ [CM1617:0027] When DCS MAX_FPGA Version of MP1590B (MP1591A) is Ver2.02 (Ver6.06), Drop function of PDH 45M and 34M can not measure correctly. Please contact Anritsu service representative. ➢ [CM1130:1273] MP1590B: When only the single MU120118B/C is inserted, the Tx Stream sent a 100% rate becomes 100.01%. This is caused by the malfunctioning variable Tx clock function. If this is the case, contact Anritsu service representative.
Ethernet Modules MU120101A MU120111A 10/100M Ethernet Module MU120102A MU120112A MU120122A MU120132A Gigabit Ethernet Module MU120121A MU120131A 10/100/1000M Ethernet Module MU120118A MU120118B MU120118C 10 Gigabit Ethernet Module	➢ [CM1130:1225] MU120121A/22A: In 10M Half, link down may happen when receiving the back pressure that does not fit the following conditions: ・ Back pressure pattern: 55 55 55 55 55 55 55 D5 xx xx (xx indicates JAM pattern) ・ Minimum gap: 12 byte ➢ [CM1130:0784] MU120102A/12A/18A/18B/18C: Using the Tx Stream function, when incrementing the TCP/UDP Port Number and Sequence Number (Data Field 1 SN, Test Frame SN, Programmable Header Pattern SN) with one setting stream (not multiple streams), the post-Jump value is not returned to the default value. ➢ [CM1130:0784] MU120118A/18B/18C: Using the Tx Stream function, when incrementing DA/SA of the MAC/IPv4/IPv6 and VLAN ID with one setting stream (not multiple streams), the post-Jump value is not returned to the default value. ➢ [CM1130:0948] MU120118A/B/C: When a Pause frame is received continuously, a Line Error occurs when sending and receiving at both ports. ➢ [CM1130:0886] MU120121A/22A: Using the Tx Stream function, when specifying UDP/IPV6 at the Protocol setting and Sequence number in Data Field, sometimes the Sequence Number becomes fixed to 0 depending on the Offset setting. ➢ [CM1130:1017] MU120118A/B/C: When a gapless frame is started following the LFS pattern, the frame header is not detected. ➢ [CM1130:1008] MU120118A/B/C: When a trigger is set at the [Latency is out of range] condition, it seems like there is a trigger two or three frames after the frame matching the conditions. ➢ [CM1130:0956] MU120118A/B/C: When flow control is enabled and Pause frames are received continuously, the Send button displays [Stopping] when frames are not being sent even when the TX Stream function is starting.
MU120103B MU120104B 2.5G Module MU150100A 10/10.7G Unit	➢ [CM1130: 0175] MU120103B/04B, MU150101A: When Port Setting - Scramble / Descramble core Header or Scramble / Descramble Payload Area setting OFF to ON, sometimes causing GFP error. ➢ [CM1130:0205] "0: Execution error" message sometimes displayed when switching from EoS mode to SDH/SONET/OTN

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MU150101A 2.5/2.6G Eos Unit	mode ➢ [CM1130: 0274] MU150101A: Stream data is not sometimes sent normally, when receiving Ping/ARP packets in sending stream ➢ [CM1130:0601] MU150101A EoS mode: The printed "LCAS State" value is incorrect when MP1590B prints the Path Monitor Data. ➢ [CM1130: 0924] MU150100A: It has the possibility to occur "not error-free condition" infrequently encountered when changing bit-rate from 9953M to 10.7G. In that case, the condition recover to normal when setting bit-rate again from 10.7G to 9953M to 10.7G.

6. Usage Notes

Read the following terms and conditions before using the MD1230/MP1590 Family.

Model Name	Description

MD1230B
Data Quality Analyzer
 	
MP1590B
Network Performance Tester
 	
MX123001A
MX159001B
Control Software
	➢ [CM1130:0123] It is not possible to Copy & Paste Tx Stream settings straddling Unit.
	➢ [CM870:0374] The stream setting is cleared when the unit module composition is changed.
	➢ [CM563:0089], [CM620:0448] The capture function can display up to 64 Kbytes of characters. Characters exceeding this limit are not decoded or displayed at the decode screen.
	➢ [CM620:0305] The error items displayed in the Capture Status do not include PRBS Bit Error and Sequence Error.
	➢ [CM620:0244] The capture conditions are different between the Ethernet Module and POS Module when setting both the Trigger and Filter. The Ethernet Module captures both the Trigger Frames and Filter Frames. The POS Module captures only Filter Frames.
	➢ [CM849:0115] The settable number of streams changes with the frame length. For details, see the operation manual.
	➢ [CM1130:0018] When the capture filter conditions are mismatched and a longer Frame than the following frames is received, the size of the captured data is smaller than the built-in memory capacity.
	   MU120101A/111A: 1000 byte
	   MU120102A: 920 byte
	   MU120112A/121A/122A: 1948 byte
	   MU120118A/B/C: 3328 bye
	   MU120103A/104A/105A/106A/103B/104B: 1266 byte
	   MU120119A/120A: 400 byte
	   MU120131A/132A: 8064 byte
	➢ [CM1130:0206] Remote Command and Save Load cannot be performed while the Log Function is operating.
	➢ [CM1130:0479] The RFC2544 Reset test cannot be performed between different units.
	➢ [CM1130:0612] The OSPF function does not operate correctly when the same Router ID is set for multiple virtual routers.
	➢ [CM1130:0740] When a large amount of data is captured at combined use with Ethereal/Wireshark, errors may occur due to Ethereal/Wireshark limitations.
	➢ [CM1130:0931] When performing loopback sending in the Address Swap mode, Preamble information is not saved. As a result, the output frame Preamble pattern 55(h) may be different from the input frame pattern.
	➢ [CM1130:0939] The Unit Alarm LED lights when the Alarm selected by the [Display Option] setting occurs. Moreover, the Port icon displays the status of alarms that are not selected by the [Display Option] setting.
	➢ [CM1130:0897] MD1230A/MD1231A/MD1230B/MP1590B: When the Windows screensaver is set, faults may occur at long-term operation. The default shipping screensaver configuration is (None). Do not change this default setting.
	➢ [CM1130:0937] The History LED off conditions are changed in Version 9.0.
	➢ [CM1130:0734] When outputting the Port Setting report, only the

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Model Name	Description
	setting contents selected at the Physical IF tab are output.
	➢ [CM1130:0891] When outputting the report for the Capture results at the Group screen, if there is a difference in the number of frames captured at each port, sometimes the reported frame count is not in accordance with the specification.
	➢ [CM1130:0903] MU120121A/22A/31A/32A/38A: The Flap Setting/Clock Offset Setting is not reported for unreserved ports.
	➢ [CM1130:0903] MU120131A/32A/38A: The Clock Offset value is not reported when not all ports are reserved.
	➢ [CM1130:0903] MU120131A/32A/38A: The Flap Setting at the Link Flap Start condition is not reported.
	➢ [CM1130:0903] MU120118A/B/C: Sometimes the Clock setting report is not output.
Ethernet Modules MU120101A MU120111A 10/100M Ethernet Module MU120102A MU120112A MU120122A MU120132A Gigabit Ethernet Module MU120121A MU120131A 10/100/1000M Ethernet Module MU120118A MU120118B MU120118C 10 Gigabit Ethernet Module	➢ [CM1600:0466] When the ARP Reply setting at the Port Setting screen is set to Reply to all ARP Request, the network connection using multiple ports becomes abnormal because of an attempted response to all ARP Requests. Ensure that you understand how to use Reply to all ARP Request correctly. Normally, use Reply to this Port. ➢ [CM1600:0466] When the MAC Address setting of the This Port screen is set to multicast (LSB of header byte is 1), the send source addresses of the frames sent by the Port Protocol Emulation function all become multicast and operation of the connected network becomes abnormal due to an attempt to set the destination of frames responding to these packets to all multicast. Take care about this point. ➢ [CM1130:0244],[CM1130:0691] MU120102A/12A/22A(SFP)/32A: When the Tx Stream set frame length or gap length is an odd number, the actually sent ISG is 1 byte shorter than the set ISG. As a result, the actual send rate exceeds the set rate. ➢ [CM1262:0419],[ADE968:0038] MU120102A/12A/22A(SFP)/32A: When the Tx Stream function Frame setting is an odd value or Random/Increment, the minimum value of the IFG/IBG/ISG setting becomes 9 (bytes). ➢ When using this module for latency measurement in combination with MU120101A, select "MD1230A Test Frame for MU120101A" at the other module. ➢ [CM870: 1148] MU120101A/111A/121A/122A: When the cable is disconnected, the value of the transmission rate counter becomes abnormal. ➢ [CM488:0383] MU120118A/B/C: It inserts bit errors only in Lane3 in the individual mode with Option-13 Unframe BER measurement. Set the Type to Bit all (Lane0), Bit all (Lane1), Bit all (Lane2), and Bit all (Lane3) successively, to perform each measurement. ➢ [CM1130:0302] When there is a mismatch in the In and Out Link conditions (10M/100M/1000M, Full/Half) in the Through mode, communications cannot be performed normally. ➢ [CM1130:0302] When using the Through mode, Link Up must be performed first in the Normal mode before changing to the Through mode. ➢ [CM1451:0070] MU120121A/22A/31A: When the Link Speed is

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Model Name	Description
	1000 Mbps, 1byte of the header Tx Stream setting Preamble (variable) field cannot be edited. 55 (hex) is always sent. ➤ [CM1451:0069] MU120121A/22A/31A: When the Link Speed is 10 Mbps, the Preamble Capture/Counter Function does not operate normally. ➤ [CM1130:0125] MU120118A/B/C: When PCS Type = WAN (WAN-PHY) and the ISG byte count is set to a decimal value, the rate at the setting screen is not sent. ➤ [CM1130:0459] MU120121A/122A(RJ-45)/131A: Sometimes Link Down occurs when output pattern of DUT at back pressure is only JAM. Output pattern must be Preamble + SFD + JAM. ➤ [CM1130:0485] Even when the cable is connected, Link Up cannot be established while frames are being sent from the DUT when Line Speed 10M and Auto negotiation Off are set at the RJ-45 port of the MU120121A/22A. ➤ [CM1130:0989], [CM1130:0888] MU120131A/32A: The Test Frame count when Type is Flow ID has been removed from the Sequence Error count. In addition, the Test Frame count when Type is PRBS has been removed from the multi-flow counter Sequence Error count. As a result of this fix, Flow ID test frames are counted by the multi-flow counter Sequence Error and other types of test frame are counted by the Sequence Error counter (not multi-flow counter). (Versions 9.0 or later) ➤ [CM1130:0800] When the Port Setting Preamble setting is On and the Tx Stream Protocol is MAC Control Frame, although the Frame View Decode display is abnormal, the data is actually sent according to the setting contents. To confirm the sent contents with the Decode display, set the Preamble setting to Off. ➤ [CM1130:0799] Using the Tx Stream function, when the Protocol setting is set to MAC Control Frame, the Preamble setting is not displayed but the setting is enabled. (Operation is in accordance with the setting contents before the display disappeared.) ➤ [CM1130:0818] When Port Setting Mapping is set to Unframed, set the Flow Control setting to Off. ➤ [CM1130:0841] The 1000BASE-T GBIC is only supported by the MU120112A, it cannot be inserted at the MU120102A. In addition, note the following precautions when using with the MU120112A. - Use the 1000BASE-T GBIC with the G0124A accessory. Operation is not assured with other parts. - Set the Auto Negotiation setting to Off. - The MII Register setting screen cannot be used. - The Self Test Flow Control test cannot be performed. ➤ [CM1130:1034] When Oversize is specified at Tx Stream Error Insertion, a 1519-byte frame is sent. As a result, when setting the Maximum Frame Size for Port Setting to a value larger than 1519, an Oversize Error is not counted even when sending this stream. ➤ [CM1130:0997] MU120118C: When confirming the MU120118C version at the Version tab of Setup Utility, the number for the larger of the two slots is displayed, but the smaller slot number is specified and used with the MX123001A.
MU120103A, MU120104A,	➤ [CM870:0253] The displayed Latency results may be disabled (-). ➤ [CM620:0309] When PPP, LEX, or LAPS is selected for mapping,

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Model Name	Description
MU120103B, MU120104B 2.5G Module MU120105A, MU120106A 10G Module MU120119A OC-3/12 STM-1/4 Module (1310 nm) MU120120A OC-3/STM-1 Module (1310 nm)	the dummy payload excludes flags. ➢ [CM849:0206],[CM1804:0008] MU120103B/04B, MU150101A: The frame that is received immediately after the Mapping is changed to GFP has a tHEC error. This happens because the first received frame has insufficient descramble data when scrambled in frame units by GFP. ➢ [CM563:0191],[CM563:0193] MU120119A/20A: When "Loopback" is set at the Port Settings screen, Frame is also sent externally. ➢ [CM1130:0908] When specifying [Test Frame for MU120101A] at Data Field of Tx Stream and setting Frame Length to Auto, operation is not in accordance with the settings even if Offset is set to a value larger than 0.
Option 10 RFC2889 Benchmarking Test	➢ [CM1130:1041] The Learning Frame is sent only once at the measurement start binary even for time-consuming measurements, such as RFC2889 Automatic Test - Throughput. As a result, at one-way tests such as Forward Pressure and Maximum Forwarding Rate, the receiving-side port may be erased from the address table during measurement, possibly preventing output of correct results. ➢ [CM1130:0993] At the Address Caching Capacity Test of RFC2889 Automatic Test, the sending rate for the test frame (sent from T Port to L Port) is the same as the sending rate (Address Learning Rate) for the Learning Frame (sent from L Port to T Port). Since the default Address Learning Rate is a low 50 fps, the Age Time until sending is completed overflows if there are many addresses, and sometimes correct measurement is impossible. ➢ [CM1130:0998] Sometimes [Forward pressure detected] is evaluated by mistake at RFC2889 Automatic Test - Forward Pressure and Maximum Forwarding Rate (with devices having send and receive buffers). ➢ [CM1130:1004] Even when Address per Port is set to a larger value than 1, operation is not performed according to the setting at RFC2889 Automatic Test - Congestion Control. ➢ [CM1130:1006] Although Addresses per Port is included in the RFC2889 Automatic Test - Broadcast Frame Forwarding and Latency setting items, it has no meaning even if set.
Option 01/02/03 Option 07/09/10 (MX123001A) RS-232C/GPIB/Ethernet Control	➢ [CM488:0120],[CM488:0501] When remote control is released while executing an automatic test using a remote command, it is not possible to measure correctly. ➢ [CM620:0422] The contents of the Programmable pattern setting for Data Field 1 display All 0 during sending. ➢ [CM1130:0858] When capturing graph data using the COUNter:GRAPh:DATA? command, the graph must be displayed once on the screen. From Version 9.0, this restriction applies only to the multiflow counter but not to other counters.

7. Upgrade Notes

Model Name	Description
MD1230/MP1590 Family	➢ Read the "Upgrading Software Manual" on the Upgrade CD-ROM before updating the MD1230 Family software. ➢ [CM1130:0483] Normal operation is not assured when a version check error occurs. Upgrade the firmware using the Download function of the Setup Utility. For details, refer to the Upgrade Manual. ➢ When the software upgrade is done, the configuration file might not be able to be read. In this case, convert the configuration file using "Setup File Converter". ➢ [CM1804:0001] Changed supported Ethereal version to 0.10.13 (Ver.8.2 or later)
MD1230B Data Quality Analyzer	➢ [CM1130:0975] The MD1230B firmware cannot be downgraded to versions earlier than Version 4.1. Installing Version 4.0 or earlier in the MD1230B may prevent normal start-up. ➢ MD1230B: When the software version is earlier than 4.01.19 (4.0106, 4.0111, and 4.01.18, etc.), the software upgrade cannot be done. Please contact our sales representatives. ➢ [CM1130:0197] MD1230B: Sometimes a Kernel.exe Application Error occurs after software install but there is no actual operation problem. Please contact our sales representative if this problem happens. ➢ [CM1130:1300] The product key for software installer is not necessary on version 9.06.10 or later
MP1590B Network Performance Tester	➢ [CM1130:0779] ONLY install this upgrade when the MP1590B firmware is later than version 5.0 (e.g. 5.1 or later). DO NOT install this upgrade when the version is 5.0 or earlier. In this case, contact your Anritsu Service or Sales Office to upgrade the software. ➢ [CM1262:0251] The restrictions on modules for the MP1590B have changed from version 7.0. For details, see the Operation Manual. ➢ [CM1130:1300] The product key for software installer is not necessary on version 9.06.10 or later
MD1230A Data Quality Analyzer MD1231A/31A1 IP Network Analyzer MT7407A Multislot Chassis	➢ The MD1230A/31A/31A1 and MT7407A are not supported by software version 7.0 and later. Use version 6.0.
MP1591A Network Performance Tester	➢ The MP1591A cannot use version 9.0 and later. Please use version 8.2.
MX123001A Control Software	➢ [CM1262:0646] MX123001A does not support Windows98. (Ver.7.0 or later) ➢ [CM1130:1292] MX123001A support Windows7 (Ver.9.6 or later) but following options cannot be guaranteed in Windows7. - MX123001A-06 TCL INTERFACE - MX123001A-07 RS-232C CONTROL - MX123001A-09 GPIB CONTROL - MX123001A-01 REMOTE CONTROL SOFTWARE FOR MD1230A-04 - MX123003A REMOTE CONTROL SOFTWARE FOR MX123002A

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Model Name	Description
MX159001B Control Software	➢ [CM1130:1292] [CM1130:1292] MX159001B support Windows7 (Ver.9.6 or later) but MX159001B does not support 64bit version and following options cannot be guaranteed in Windows7. - MX159001B-01 RS-232C CONTROL - MX159001B-02 GPIB CONTROL
MU120118B 10 Gigabit Ethernet Module	➢ The MU120118B does not operate correctly with software versions earlier than 3.3. (With software versions 3.1 to 3.3, the MU120118B appears to be operating normally, but is actually not.) Always use software version 4.0 or later.
MU120121A 10/100/1000M Ethernet Module MU120122A Gigabit Ethernet Module	➢ MU120121A/122A: If you find following label on connector to the main frame, software version of proper operation is 5.00.27 or later. CAUTION/注意 This board is supported with 1230/1590 software ver5.00.27 or more. Refer to the release note. このボードは1230/1590ソフトver5.00.27以上でサポートします。リリースノートを参照してください。
MU150125A 10/10.7G Jitter Unit	➢ MU150125A: If you find following label on front panel, software version of proper operation is 8.02.13 or later. CAUTION/注意 This unit is supported with MP1590B software ver8.02.13 or more. Refer to the release note. このユニットはMP1590Bソフト ver8.02.13以上でサポートします。 リリースノートを参照してください。
Option 17 Traffic Impairment Emulator	➢ If the following label is not attached to the MU120121A/22A, the functions of Option 17 cannot be used (cannot switch firmware to Impairment). The label is attached to the connector that connects to the main frame. Supports Opt. 17
Option 01/02/03 Option 07/09/10 (MX123001A) RS-232C/GPIB/Ethernet Control	➢ When the software is upgraded, some remote command device messages may change. Customers using remote commands should check the MD1230A Remote Control Operation Manual when performing the version upgrade.

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