

# MT9083 Series ACCESS Master

## Release Note

Version 5.48

Thank you for choosing the Anritsu MT9083 Series ACCESS Master.

This release note explains the functions updated by firmware version 5.48 for the MT9083 Series.

It also provides notes on known software issues and usage precautions.

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## 1. Release Software and Manuals

This upgrade contains the following MT9083 Series software and manuals.

| Download File Name  | Version |
|---|---------|
| MT9083 Series Firmware Version  | 5.48    |
| Operation Manual  | Edition |
| MT9083 Series ACCESS Master Operation Manual  | 15.0    |
| MT9083 Series ACCESS Master-001 IP Network Connection Check Function Operation Manual | 3.0     |
| MT9083 Series ACCESS Master Remote Control Operation manual                           | 4.0     |

## 2. Target Models

MT9083A, MT9083B, MT9083C

## 3. Version Information

This table shows the firmware version. Confirm the firmware version of your MT9083 at the Setup Key (select #5 on the key pad) and "About "screen (select f6).

| Product Name                       | Version |
|------------------------------------|---------|
| MT9083 Series Firmware Update File | 5.48    |

## 4. New Features

### Function added and changed by upgrading the firmware version from 5.47 to 5.48.

- None

### Function added and changed by upgrading the firmware version from 5.45 to 5.47.

- None

### Function added and changed by upgrading the firmware version from 5.43 to 5.45.

- Added Pass/Fail function of VIP.  
The captured VIP image can be analysis without PC software.
- Added wake up password function.  
MT9083 series can be protected by the wake up password.
- Added page scroll function.  
Left or Right cursor key can be move every 16 lines on Load and Save screen.  
Keeping pushing these keys can be move 50 lines also.
- Added backup function of header information for OTDR (Construction) mode.  
MT9083 series can be saved the header information for OTDR (Construction) mode, if you turn off the MT9083.
- Added parameter backup function in OTDR (Construction) mode  
MT9083 can keep settings (Display from, Loss mode and trace screen zoom size) in every testing If the "Current" is selected at Display Mode After Analysis.

### Function added and changed by upgrading the firmware version from 5.42 to 5.43.

- None. There is no new additional function and bug fix.

### Function added and changed by upgrading the firmware version from 5.41 to 5.42.

- None

**Function added and changed by upgrading the firmware version from 5.40 to 5.41.**

## ➤ Added Enhanced resolution for MT9083A/B models

The GUI is modified to allow the user to select resolution with 150,000 sampling points on the MT9083A/B units. The new resolution is called “Very High”. The 300km range is also added.

|        | Low Density |              | High Density |              | Very High Density |              |
|--------|-------------|--------------|--------------|--------------|-------------------|--------------|
|        | Resolution  | Sampling pts | Resolution   | Sampling pts | Resolution        | Sampling pts |
| 0.5 km | 0.1 m       | 5,001 pts    | N/A          |              | N/A               |              |
| 1 km   | 0.2 m       | 5,001 pts    | 0.05 m       | 20,001 pts   | N/A               |              |
| 2.5 km | 0.5 m       | 5,001 pts    | 0.1 m        | 25,001 pts   | N/A               |              |
| 5 km   | 1 m         | 5,001 pts    | 0.2 m        | 25,001 pts   | N/A               |              |
| 10 km  | 2 m         | 5,001 pts    | 0.5 m        | 20,001 pts   | N/A               |              |
| 25 km  | 5 m         | 5,001 pts    | 1 m          | 25,001 pts   | N/A               |              |
| 50 km  | 10 m        | 5,001 pts    | 2 m          | 25,001 pts   | N/A               |              |
| 100 km | 20 m        | 5,001 pts    | 5 m          | 20,001 pts   | 1 m               | 100,001 pts  |
| 200 km | 40 m        | 5,001 pts    | 10 m         | 20,001 pts   | 2 m               | 100,001 pts  |
| 300 km | 60 m        | 5,001 pts    | 20 m         | 15,001 pts   | 2 m               | 150,001 pts  |

## ➤ Added new SCPI commands

The GUI is modified to allow the user to select resolution with 150,000 sampling points on the MT9083A/B units. The new resolution is called “Very High”. The 300km range is also added.

## 1. STOP

- Stops the active test. The trace data will be preserved.

## 2. INITiate:RTIME

- Starts OTDR real time test.

## 3. TRACe:LOAD:DATA?

- Get trace data points

## 4. DISPlay:MODE

- Set display mode (From Origin, From A, From B).

5. DISPlay:MODE?
  - Get display mode (From Origin, From A, From B).
6. DISPlay:ZOOM:FULL
  - Set display zoom to full trace in current display mode
7. DISPlay:ZOOM:HORIZontal
  - Set Horizontal display zoom to specified level
8. DISPlay:ZOOM:HORIZontal?
  - Get Horizontal display zoom level
9. DISPlay:ZOOM:VERTical
  - Set Vertical display zoom to specified level
10. DISPlay:ZOOM:VERTical?
  - Get Vertical display zoom level
11. DISPlay:SCALE:HORIZontal
  - Set Horizontal scale range to specified value
12. DISPlay:SCALE:HORIZontal?
  - Get Horizontal display scale range value in km
13. DISPlay:SCALE:VERTical
  - Set Vertical display scale range to specified value
14. DISPlay:SCALE:VERTical?
  - Get Vertical display scale range value in dB

**Function added and changed by upgrading the firmware version from 5.33 to 5.40.**

## ➤ Added Remote GUI function

MT9083 series can be operated PC via LAN (Ethernet network) without any additional software installed.

A PC is shown OTDR screen and can operate them using a mouse on PC.

You can operate far end MT9083 easily.

This function is required to use "USB-Ethernet Converter (J1480A)", it's needed to connect USB Port A on MT9083 series.



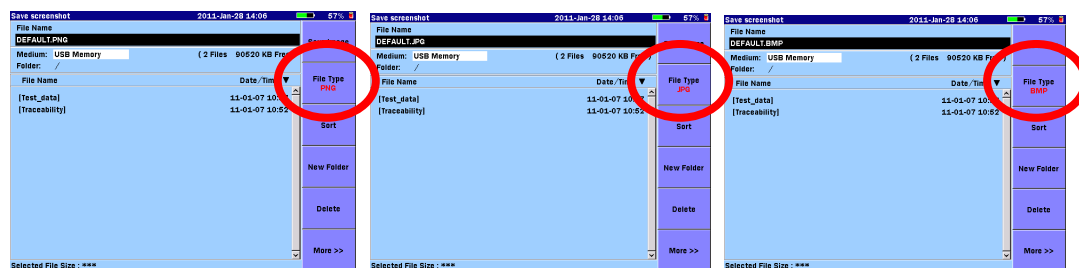
PC is shown same screen of MT9083, and can operate it similar operations

**Function added and changed by upgrading the firmware version from 5.32 to 5.33.**

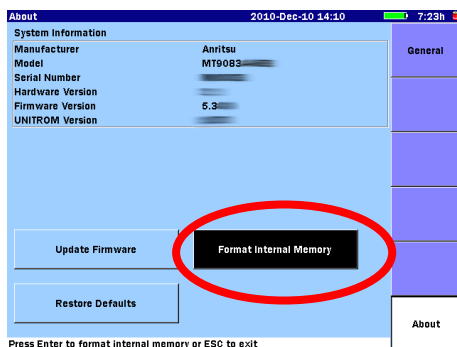
None

**The following main functions are added by upgrading the firmware version from 5.20 to 5.32.**

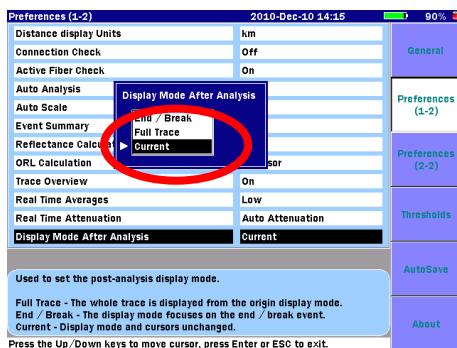
## ➤ Available to select the file format to save the screen (hard copy) that can be selectable PNG, JPG and BMP formats.



- The full memory sanitation  
Completely format memory of user area.



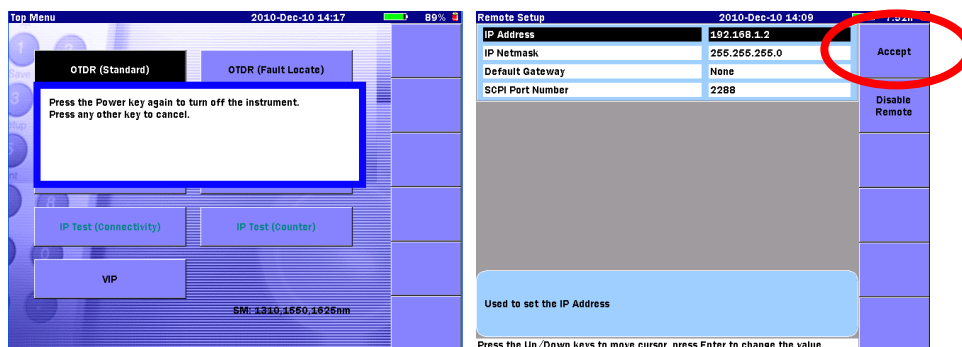
- Keep the Cursors position and the display position after done the auto-search  
Display Mode After Analysis  
Added "Current" to set the "Display Mode After Analysis" that the Display Mode After Analysis setting is used to set the post-analysis display mode.
  - End/Break – The display mode focuses on the end/break event.
  - Full Trace – The full trace is displayed in Display from Origin mode.
  - Current – The display mode and cursor positions remain unchanged.





## ➤ &lt;Related Remote Control Function&gt;

Create a back-up file on IP address setting screen



Till V.5.20, MT9083 series was saved back-up file of setting parameter at “Power off screen” showing (as left hand side screen). When host PC is sent “\*RST (Reset)” then MT9083 series automatically load back-up file of setting parameter included IP address and so on, in that case host PC cannot be controlled after sent reset command.

New feature can be saved setting parameter on IP address setting screen (as right hand side screen) to avoid the above concern.

## ➤ &lt;Related Remote Control Function&gt;

Get the trace data form specified start to end position of distance range via remote control

TRACe:LOAD:TEXT? <start>,<end>

<start>: Start position of the trace data. Distance unit is km.

<end>:End position of the trace data. Distance unit is km.

## 5. Resolved Software Issues

| Model Name                                  | Description  |
|---|--|
| MT9083 Series<br>ACCESS Master<br>Ver. 5.48 | ➤ Fixed bug that does not display the cursor in the correct position.  |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.47 | ➤ Fixed bug that the screen turned blue when continued zooming in in Display From Origin mode.   |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.46 | ➤ Fixed bug that Date/Time of a new folder was displayed as "70.01.01 00:00" when created in the internal memory.  |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.45 | <ul style="list-style-type: none"> <li>➤ Fixed bug causing to cannot execute the Format Internal Memory function.</li> <li>➤ Fixed bug causing to cannot save the Loss Mode if Verify is selected under the Auto save condition.</li> <li>➤ Fixed bug causing to cannot shutdown automatically when the battery is low.</li> </ul> |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.43 | ➤ None. There is no new additional function and bug fix.   |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.42 | ➤ Fixed bug causing to create a wrong file when started by particular procedures.  |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.41 | ➤ Fixed bug causing to keep displaying pop-up screen such as Distance range when the "Wavelength all" is selected on OTDR(Standard) screen and particular operation is done.   |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.40 | ➤ Fixed bug causing anomalous waveform under a particular set of conditions.   |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.33 | ➤ Fixed bug that displays unnecessary noise at around the center of waveform screen. This is reported to happen depending on the measurement conditions and usage conditions of fiber to be tested.  |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.32 | ➤ Fixed bug causing to display "Under range" sometimes when input in the range of guaranteed operation.  |
| MT9083 Series<br>ACCESS Master<br>Ver. 5.31 | ➤ Fixed bug causing turn off the power automatically when battery own temperature is achieved $>+45^{\circ}\text{C}$ or $<-15^{\circ}\text{C}$ .   |

## 6. Known Problems

Firmware version 5.48 for the MT9083 contains the following known problems:

| Model Name                     | Description |
|--------------------------------|-------------|
| MT9083 Series<br>ACCESS Master | ➤ None      |

## 7. Cautions

Read the following terms and conditions carefully before using the MT9083.

| Model Name                     | Description   |
|--------------------------------|---|
| MT9083 Series<br>ACCESS Master | <ul style="list-style-type: none"> <li>➤ Some commercially available USB memory may not be supported. Refer to Section 8. Upgrade Precautions for details of USB memory supported by Anritsu.</li> <li>➤ BEFORE upgrading the firmware, ALWAYS read the MT9083 Series ACCESS Master Firmware Upgrade Procedure and the MT9083 Series Operation Manual.</li> </ul> |

## 8. Upgrade Precautions

**Download the newest firmware from the following URL.**

- <https://www1.anritsu.co.jp/Download/MService/Login.asp>

However, site user registration is required first to obtain a Login ID and set a password.

- Anritsu has confirmed compatibility with USB memory from the makers listed in the following table. If your USB memory is not recognized by the MT9083, please purchase one of the supported media types.

| Manufacturer  | Model/capacity                                 |
|---------------|--|
| Biocryptodisk | ISPX/4GB                                       |
| Sony          | POCKET BIT/32MB                                |
| Sony          | POCKET BIT 512MB Turbo                         |
| GREEN HOUSE   | PicoDrive/64 MB                                |
| TOSHIBA       | TransMemory/256 MB                             |
| TOSHIBA       | TransMemory/512 MB                             |
| ADTEC         | DATASTICK/64 MB                                |
| Princeton     | X i a o Jr./64 MB                              |
| BUFFALO       | RUF2 - E1G - B/512 MB                          |
| I-O DATA      | ToteBag/512 MB                                 |
| Scan Disk     | Cruzer Micro with Skins USB Flash Drive/256 MB |
| imation       | Flash Drive Mini with swivel cap/256 MB        |
| Transcend     | JetFlash/256 MB                                |
| Sony          | POCKET BIT/8GB USM8GJ-B                        |
| I-O DATA      | ToteBag/4GB TB-AT4G/B                          |
| BUFFALO       | RUF2-J4GS-BK                                   |

- NEVER remove the USB memory inserted into the MT9083 while updating, otherwise the firmware update will fail, leaving the MT9083 unable to restart.
- When updating the firmware, do not press any key on the MT9083, otherwise the firmware update may fail, leaving the MT9083 unable to restart.

- When updating the firmware, do not turn off the power to the MT9083, otherwise the firmware update will fail, leaving the MT9083 unable to restart.
- When updating the firmware, do not remove the AC adapter plug from the MT9083, otherwise the firmware update may fail, leaving the MT9083 unable to restart.

If the firmware update fails and the MT9083 cannot restart, please contact our Anritsu sales representative.