

MANUAL PART NUMBER: 400-0390-002

MT103-127/128

VGA TO 5 BNC LINE DRIVER/INTERFACE AND VGA TO 3 BNC LINE DRIVER/INTERFACE/BUFFERED LOOP

CARDS FOR MULTI-TASKER USER'S GUIDE





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PRECAUTIONS / SAFETY WARNINGS

Please read this manual carefully before using your **MT103-127/128**. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **MT103-127/128** and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

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1.1 GENERAL

 Qualified ALTINEX service personnel, or their authorized representatives must perform all service.

1.2 INSTALLATION

- To prevent fire or shock, do not expose this unit to rain or moisture. Do not place the **MT103-127/128** in direct sunlight, near heaters or heat radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- Handle the **MT103-127/128** carefully. Dropping or jarring can damage the card.
- Do not pull the cables that are attached to the MT103-127/128.
- Insert the card carefully into the slots of the Multi-Tasker[™] without bending any edges.

1.3 CLEANING

 Clean only the connector area with a dry cloth. Never use strong detergents or solvents, such as alcohol or thinner. Do not use a wet cloth or water to clean the card. Do not clean or touch any component or PCB.

1.4 FCC / CE NOTICE

• This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual. may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Any changes or modifications to the unit not expressly approved by ALTINEX, Inc. could void the user's authority to operate the equipment.





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ABOUT YOUR MT103-127/128

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MT103-127/128 VGA TO 5 BNC LINE DRIVER / INTERFACE

VGA TO 3 BNC LINE DRIVER / INTERFACE / BUFFERED LOOP

The **MT103-127/128** are high-resolution interfaces designed to connect a computer video source to a compatible monitor or projector over long distances. The **MT103-127/128** are compatible with VGA thru UXGA resolutions.

The inputs on both cards are connected via a standard computer VGA connector. The outputs provided on the **MT103-127** are RGBHV, RGBS or RGsB. The Composite Sync and Sync on Green signals are generated on board and may be selected by the user. The **MT103-128** provides RGsB outputs and a buffered VGA local monitor output on a standard 15-pin HD connector.

The **MT103-127/128** both use video signal equalization and horizontal position controls to compensate for signal quality loss on long cable runs, up to 400ft between units. Switch settings allow these features to be controlled either through software control (RS-232) or from a hardware adjustment accessible on the front of the card. Signal Detection circuitry allows the user to determine the presence of an input signal.

The HelpInside[™] feature allows programmers to have access to command structures and control of the **MT103-127/128** from any terminal.

The **MT103-127/128** also has Menu driven protocol implemented for easier RS-232 control, which eliminates the requirement of typing lengthy commands for output adjustments.

TECHNICAL SPECIFICATIONS

FEATURES/ DESCRIPTION	MT103-127/128
GENERAL	
Inputs	15-Pin HD Female
Outputs	
MT103-127	BNC Female (5)
	RGBHV,RGBS, RGsB
MT103-128	BNC Female (3) RGsB
	15-Pin HD Female RGBHV
Compatibility	VGA thru UXGA
Approvals	CE/FCC

Table 1. MT103-127/128 General

MECHANICAL	MT103-127/128
Enclosure Slots Required	1
Weight	1.1 lb (0.5 kg)
Connector Panel	Black Anodized
T° Operating	10°C-50°C
T° Maximum	75°C
Humidity	90% non-condensing
MTBF (calc.)	50,000 hrs

Table 2. MT103-127/128 Mechanical

ELECTRICAL	M	MT103-127/128		
Video Input Signals		RGB		
Analog Signal Level		1.5Vp-p Max.		
Impedance		75 Ohms		
Sync Input Signals		H,V		
Impedance		10kOhm		
Signal Level		3-5V TTL		
Output Video Signals				
Gain		1.1		
Impedance	75 Ohms			
Output Sync Signals				
mpedance 75 Ohms		ns		
Signal Level		4.5V TTL		
Power (from Enclosure)	+6V	-6V	Power	
MT103-127/128	388mA	129mA	3.0 watts	

Table 3. MT103-127/128 Electrical





PRODUCT DESCRIPTION

DESCRIPTION 1: MT103-127



DESCRIPTION 2: MT103-128

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APPLICATION DIAGRAM

DIAGRAM 1: MT103-127 TYPICAL SETUP



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DIAGRAM 2: MT103-128 TYPICAL SETUP







SIGNAL MANAGEMENT SOLUTIONS

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SIGNAL

DIAGRAM 3: MT103-127 INTERNAL VIEW





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SIGNAL

DIAGRAM 4: MT103-128 INTERNAL VIEW





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DIAGRAM 5: MT103-127 SETTINGS



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DIAGRAM 6: MT103-128 SETTINGS





SIGNAL MANAGEMENT SOLUTIONS"

INSTALLING YOUR MT103-127/128

Step 1. Determine the switch settings before installing the MT103-127/128. The switch settings determine the following:

MT103-127 and MT103-128

Equalization:	Set for hardware or
	software control.
Horizontal	Set for hardware or
Position:	software control.
0 0 1	

Sync Delay: Set Sync Delay On/Off for Horizontal Position control.

MT103-127 ONLY

Sync On Set Sync-On-Green ON or Green: OFF.

Composite Set for HV Sync or Sync: Composite Sync.

- Step 2. Set the switches. See the switch locations for the MT103-127 on page 8, <u>DIAGRAM 5</u>, and the switch locations for the MT103-128 on page 9, <u>DIAGRAM 6</u>.
- Step 3. Slide the MT103-127/128 into an available slot in the Multi-Tasker[™] Enclosure in order to connect to the bus. Make sure that the card fits into place. Secure the card to the Multi-Tasker[™] by tightening the retainer screws located on the top and bottom of the card.
- Step 4. Connect the MT103-127/128 input connector to a computer output using a standard VGA type cable. Connect the output connectors to the display device using the appropriate BNC type cables.
- Step 5. For the MT103-128 only, connect the local monitor output to a local monitor for display purposes.
- **Step 6.** Starting from the left, identify the slot number where the **MT103-127/128** card is plugged into the Enclosure and note that it is for RS-232 control.
- **Step 7.** Reset the Multi-Tasker[™] or turn the power off and then on.

OPERATION

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7.1 RS-232 CONTROL

When used in the Multi-Tasker[™] Enclosure, the **MT103-127/128** has many advanced remote control capabilities, which are accessible through standard RS-232 communication. The actual controlling can be accomplished through a computer control system or any other device capable of sending RS-232 commands.

7.1.1 RS-232 INTERFACE

The RS-232 commands, for the **MT103-127/128**, are in a simple ASCII character format.

- 1. Square brackets "[]" are part of the command.
- 2. Use uppercase letters for all commands.

After processing a command, an OK or ER will be returned as feedback if "F" is included at the end of a command string.

Commands ending in "S" will be saved into memory. Commands not ending in "S" will still be executed but will not be restored when the system is reset or powered OFF then ON.

7.2 DESCRIPTION OF COMMANDS

Each command consists of three parts: Function, Card ID, and Unit ID.

[Function, Card ID, Unit ID]

Example: [VERC3U2]

VER = Function

C3 = Card ID or Group ID

U2 = Unit ID

For Function, see a detailed explanation under each command description.





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The Card ID is an assigned value. It is equal to the enclosure slot number in which the card is installed. The value can range from 1 to 4 up to 1 to 20 depending on the enclosure.

Card ID 0 (C0) is used for the controller. See the MT100-100 User's Guide for details.

The Group ID is a number representing a group of cards defined with the [WR] command. When using the Group ID, all cards in the group will perform the given instruction.

Changing the position of a card will significantly affect the commands recorded on software definitions or third party control systems.

The Unit ID has a value from 0 to 9. Unit ID 0 should be used for single unit operation. If the Unit ID is set to zero, each command may be used without Ui. Use the command [SETU0], as explained in the MT100-100 User's Guide.

Example:

[VERC3]:For Unit ID Zero[VERC3Ui]:For Unit ID other than Zero[VERC3]:Equivalent to [VERC3U0]

1. [VER]

This command displays the software version and card type for the **MT103-127/128** card.

Command Format: [VERCnUi]

Cn = Card ID (n = slot # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

An **MT103-128** card is in slot #4. Send the command [VERC4], and the Multi-Tasker[™] Enclosure will return the following feedback:

MT103-128 690-0197-001

MT103-128 = the card model

690-0197-001 = the software version

2. **[C]**

This command displays the card status.

Command Format: [CnUi]

Cn = Card ID (n = # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

One **MT103-127/128** card is in slot #4. Send the command [C4] and receive feedback similar to the following:

ON,EQ=1,HP=10 C04

ON = Output is enabled (always on)

EQ = 1 = Equalization level is 1 (out of 50)

Horiz Pos = Horiz Position is 10 (out of 20)

Note: If there is no card in slot #4, sending the [C4] command will not return any feedback.

3. **[CnS]**

This command saves the Equalization and Horizontal Position settings. These values will be restored after Reset or power up.

Command Format: [CnUiS]

Cn = Card ID (n = slot # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

S = Save settings

Example:

Save the settings on the card from the previous command example. The feedback after sending the command [C4S], for slot 4, would be:

ON,EQ=1,HP=10 C04 Saved

4. [CLR]

This command is used to clear the card and return it to its factory settings. The default values are Equalization equal to zero and Horizontal Position equal to 10.

Command Format: [CLRCnUi]

Cn = Card ID (n = # from 1 to max slots)

Ui = Unit ID (i = from 0 to 9)







Example:

Send the command [CLRC4] to restore the card in slot #4 to its factory defaults. Send the command [C4] after the [CLR] command the receive the following feedback:

ON,EQ=0,HP=10 C04

5. **[?]**

This command will return general information about the card and the status.

Command Format: [?CnUi]

Cn = Card ID (n = # from 1 to max slots)

Ui = Unit ID (i = from 0 to 9)

Example:

Send the command [?C4] to receive the feedback for the MT103-128 in slot #4. Each status field begins with a '+' and ends with the card slot number (ex: C04). The feedback will be similar to the following:

[+MT103-128C04+VR690-0197-001C04 +ONC04+EQ0C04+SI0C04]

MT103-128	=	Card Type
VR690-0197-001	=	Firmware version
ON	=	ON/OFF Status
EQ0	=	Equalization = 0
SI1	=	Signal Detect = 1, an
		input signal is detected.

6. **[STA]**

This command enables/disables automatic feedback from the front panel. The feedback will be displayed following the command sent. The command affects any card with auto-feedback capability, not just the **MT103-127/128**. The default at power on or reset is STA0, OFF.

Command Format [STA1] = ON Command Format [STA0] = OFF

- Feedback Prefix Definitions:
- +MT = Multi-Tasker Card
- +VR = Firmware Version
- +ON = ON/OFF Status
- +EQ = Equalization Setting
- +SI = Signal Present

Example 1:

```
Command = [EQ=25C4]

Feedback = +EQ25C04

+EQ = Equalization

25 = Equalization setting

C04 = Card slot number

NOTE: See the [?] command for further

details.
```

7. **[TEST]**

This command performs a test on the internal memory. If there are problems, failures will be indicated. Otherwise, the system will display the following:

MEMORY IC GOOD

Command Format: [TESTCnUi]

Cn = Card ID (n = slot # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

There is an **MT103-127/128** in slot #4. In order to test the internal memory, send the command [TESTC4].

8. [....**S**] – SAVE

This command will save the configuration command being sent in memory. When sending the command [EQ=25C4S], after reset or power up, the Equalization will be set to 25 for the card in slot #4.

9. [...F] – FEEDBACK

After processing a command, an OK or ER will be returned as feedback if "F" is included at the end of a command string.



10. **[SIG]**

The Signal Present command tests for the presence of an input signal. The card returns either a "1" or a "0" as feedback.

1 = Signal detected0 = No signal detected

Command Format: [SIGCnUi]

Cn = Card ID (n = # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

There is a properly formatted input signal being applied to the card in slot 4. Check for the presence of an input signal by sending the command [SIGC4]. The feedback will be a "1" immediately following the command sent:

[SIGC4]1

[SIGC4] = the command sent 1 = feedback, signal is present

11. **[EQ]**

This command is used to set the equalization (EQ). The equalization may be set either to an absolute number specified by the user or incremented and decremented in steps using the [+] and [-] commands.

ADJUST INCREMENTALLY

Command Format: [EQCnUi]

Cn = Card ID (n = slot # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

If there is an **MT103-127/128** in slot #4, send the command [EQC4] to make Equalization the active command. Then use the [+] and [-] commands to adjust. See the [+] and [-] commands for further details.

SET AN ABSOLUTE VALUE

Command Format: [EQ=mCnUi]

m = EQ Value (m = # from 0 to 50)

Cn = Card ID (n = slot # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

Send the command [EQ=25C4] to set the equalization value to 25. The [+] and [-] commands may be used immediately following the EQ command for further adjustment.

12. **[HP]**

This command is used to set the Horizontal Position (HP). The position may be set either to an absolute number specified by the user or incremented and decremented in steps using the [+] and [-] commands.

ADJUST INCREMENTALLY

Command Format: [HPCnUi]

Cn = Card ID (n = slot # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

If there is an **MT103-127/128** in slot #4, send the command [HPC4] to make Horizontal Position the active command. Then use the [+] and [-] commands to adjust. See the [+] and [-] commands for further details.

SET AN ABSOLUTE VALUE

Command Format: [HP=mCnUi]

m = EQ Value (m = # from 0 to 20)

Cn = Card ID (n = slot # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

Send the command [HP=10C4] to set the equalization value to 10. The [+] and [-] commands may be used immediately following the HP command for further adjustment.



13. [+] and [-]

These commands are used to adjust the Equalization and Horizontal Position and may be used from keyboard commands or programmed front panel buttons.

Command Format: [+], [-]

- [+] = Increment level by one step
- [-] = Decrement level by one step

Example:

Select the Horizontal Position control for the card in slot #4. The current setting is 5, but it is not the optimal value. After sending the following commands, an optimum setting of 10 is obtained:

- 1. [EQC4] The current level is 5.
- 2. [-][-][-] The level is now 2 and is too low.
- [+][+][+][+][+][+][+][+]
 The level is now 10 and no further adjustments are required.

14. **[HELP]**

This command displays information available for the Multi-Tasker interface commands.

Command Format: [HELPCnUi]

Cn = Card ID (n = # from 1 to max slots)

Ui = Unit ID (i = # from 0 to 9)

Example:

In order to display the RS-232 commands available for the **MT103-127/128** card in slot #4, send the command [HELPC4]. The commands along with a brief description will be displayed in the Terminal Window.

15. **[WR]**

This command groups multiple cards in the enclosure allowing all the group members to be controlled simultaneously with the same command. Each unit may define a maximum of eight groups. In Multi-Tasker[™] systems with audio and video cards, boards are typically grouped as follows:

Group 1 = Video Cards Group 2 = Audio Cards Group 3 = Video and Audio Cards

If assigning group commands to button functions, it is best to use the "Press and Hold on Power Up" to make group settings.

Command Format: [WRCn...GkUi]

Cn = Card ID (n = slot # from 1 to max slots)

Gk = Group ID (k = # from 1-8)

Ui = Unit ID (i = # from 0-9)

Example:

To group cards 1, 2, and 3 as group 5 of Unit ID 1, send the command [WRC1C2C3G5U1]. After executing this command, cards 1, 2 and 3 will be grouped together as group 5 of Unit ID 1. The system will return the following feedback:

G1=C1C2C3

Now, when a command is sent to G1, each board in G1 will execute the same command.

16. **[CLRG]**

This command clears the members for a single group or for all groups. The clear command restores the cards to default settings.

Command Format: [CLRGkUi]

Gk = Group ID (k = # from 1-8, or [for all)

Ui = Unit ID (i = # from 0-9)

Example:

- 1) To clear group 1, send the [CLRG1U1] command. This command clears the members for the specified group only.
- 2) To clear all groups of Unit ID 1, send the [CLRG[U1] command.
- NOTE: Since this command is sending the [CLR] command to its group members, each card will display its own reset message.





17. **[RD]**

This command displays the members in each group.

Command Format: [RDGkUi]

Gk = Group ID (k = # from 1-8)

Ui = Unit ID (i = # from 0-9)

Example:

The cards in slots 1, 2 and 19 are part of group 5 in Unit ID 1. Read the member data for group 5 of Unit ID 1, by sending the command [RDG5U1]. The system will return feedback as follows:

G1=C1C2C19

The feedback shows G1 (Group 1) and then the cards that make up Group 1. In this case, Group 1 includes C1, C2 and C19.

18. [CLM]

This command removes the members in a group and leaves the group empty.

Command Format: [CLMGkUi]

Gk = Group ID (k = # from 1-8)

Ui = Unit ID (i = # from 0-9)

Example:

Group 5 of Unit ID 1 contains the cards in slots 1, 2 and 19. Read the member data for group 5 of Unit ID 1. Send the command [RDG5U1] and receive the following feedback:

G1=C1C2C19

Now, clear group 5 by sending the command [CLMG5U1]. Reread the member data as above and note the following feedback:

G1=EMPTY - PLEASE RESET THE SYSTEM WHEN FINISHED

7.3 SUMMARY OF COMMANDS

Card Commands

- 1) [VER] Receives software version
- 2) [C] Receives status of the card
- 3) [CnS] Saves card settings
- 4) [CLR] Reset card to default values
- 5) [?] Show status/ general information
- 6) [STA] Enable/disable auto feedback
- 7) [TEST] Test internal memory IC's
- 8) [...S] Save the command configuration
- 9) [...F] Provides feedback upon sending
- 10) [SIG] Input Signal Detect
- 11) [EQ] Set/adjust equalization
- 12) [HP] Set/adjust Horizontal Position
- 13) [+] Increments and Decrements
 - [-] selected commands
- 14) [HELP] Display all available commands

Group Commands

- 15) [WR] Groups multiple cards
- 16) [CLRG] Clears group members
- 17) [RD] Displays group members
- 18) [CLM] Removes members from group.





7.4 MENU MODE

MENU MODE commands are RS-232 commands that allow virtually the same functionality as programming commands. Unlike the programming commands in the previous sections, 7.2 and 7.3, MENU commands prompt the user to select from a list of available options. The system then responds based upon selections made by the user.

MENU commands may be issued in response to prompts from within MTSetup[™] or other RS-232 communication software.

The MENU driven commands are only available with Multi-Tasker[™] Front Panel systems that have the following firmware:

690-0122-015 = Version 015 or later. 690-0123-004 = Version 004 or later. 690-0124-015 = Version 018 or later.

NOTE: In MTSetup[™], send the command [VER] from the Terminal Window. The system will respond with feedback similar to the following:

[690-0122-015 690-0123-004 690-0124-018]

Check the last three digits against the numbers above to determine if the MENU MODE option is available.

7.4.1 MENU COMMAND DEFINITIONS

Refer to section 7.2 for details on card functions and examples. Following is a cross-reference of menu mode sections versus programming commands.

MENU	COMMAND
Control	
Clear	[CLR]
Setup	
Equalization	[EQ], [+], [-]
Horiz Pos	[HP], [+], [-]
Status	[VER], [C]
Help	[HELP]
Not Available	[?], [CnS], [STA], [S], [F],
	[TEST], [WR], [CLM],
	[CLRG], [RD]

7.4.2 USING MENU MODE

SUGGESTION: Before using the menu mode, it is best to disable the automatic feedback feature. The values and current settings will be displayed in the menu mode, but the automatic feature will display after each setting change making the menus difficult to read.

- In order to enter MENU mode, the system needs to be connected to a computer running MTSetup[™] or other RS-232 control software.
- 2. Insert the card into an empty slot and push in all the way for a secure fit.
- 3. Reset the system or power the system OFF and then ON.
- In MTSetup[™], click the cursor in the Terminal Window and press the ENTER key.
- 5. The system will interrogate the enclosure and return a list of cards installed and their slot locations.

Example: 8 (Slot 8): MT103-127

NOTE: Only cards supporting the MENU feature will be displayed.

- 5. Find the alphanumeric character representing the card whose setup requires changing. It will be the first character in the line.
- 6. Press the number or letter associated with the card, and a menu with options available for that card will appear on the screen. In the example above, press "8".

WARNING: Do NOT enter any characters except the one relating to the desired menu. Pressing ENTER or RETURN after "8" will force the system back to the original prompt.

7. After selecting the **MT103-127/128** as described above, the system will prompt for selections specific to that card.







8. Read each menu carefully, and continue selecting keys as prompted for further functions. (Example prompt: "Key= ")

7.4.3 MENU TYPES

1. MAIN MENU

The first menu displayed after selecting the card is the Main Menu. This menu provides access to the main functions related to the card. Press the key representing the menu item for access. A sub menu will appear next.

2. SUB MENUS

Each sub menu will display either another menu (sub menu) or a list of available options or settings. Press the key corresponding to the menu choice to change a setting or select the next menu.

NOTE: Pressing the ESCAPE (ESC) key in most menus will take you up to the previous menu. In some case, it returns to the previous menus without making changes in the current menu.

7.4.4 MT103-127/128 MENUS

Following are the menus available to the **MT103-127/128**. The first menu is the Main Menu only. The second listing is an expansion of all the menu items available.

The expanded menu contains values in parentheses that indicate the current setting or value of that parameter. These are only examples and will vary from card to card. In some areas, additional comments are provided for clarification. These comments will appear in normal text format either just prior to the menu item or just after.

CAUTION: Pay special attention to the top of the menus. Current values and settings will be displayed in parentheses.

MT103-127/128 MAIN MENU

- PRESS KEY TO SELECT
- 1: CONTROL
- 2: SETUP
- 3: STATUS
- 4: HELP
- ESC: GO BACK

KEY=

MT103-127/128 EXPANDED MENUS

- 1. CONTROL: THIS CARD
 - 1: CLEAR

ESC: GO BACK

- KEY=
- 2: SETUP
 - 1: SET EQUALIZATION SET EQUALIZATION (EQ=2)
 - 1: INCREASE EQ
 - 2: DECREASE EQ

ESC: GO BACK

KEY=

Pressing 1 or 2 at the "Key=" prompt will increment or decrement the EQ setting and display the new value.

- 2: SET HOR POSITION SET HORIZONTAL POSITION (HP=10)
 - 1: ADJUST TO LEFT 2: ADJUST TO RIGHT ESC: GO BACK

KEY=

Pressing 1 or 2 at the "Key=" prompt will increment or decrement the HP setting and display the new value.

ESC: GO BACK

KEY=



8

3: STATUS

Equivalent to the [VER] and [C] commands. Returns the card number, firmware revision and status.

4: HELP

Equivalent to the [HELP] command. Displays a list of commands available for the **MT103-127/128** along with a brief description.

ESC

Returns to the parent menu.

7.4.5 MENU MODE EXAMPLES

All MENU MODE examples assume an **MT103-127/128** is installed in slot #1. Start by clicking the mouse in the Terminal window. Press ENTER and a list of available cards will be displayed.

1. Reset the card to factory default settings Follow the keystrokes below:

Enter List available cards

- 1 Select MT103-127/128 in slot #1
- 1 Select the CONTROL menu
- 1 Select CLEAR
- 1 YES to confirm clear
- ESC Return to the MAIN Menu

2. Set the Equalization to 25, starting at 20 Starting from the Main Menu, follow the keystrokes below.

- 2 Select SETUP menu
- 1 Select SET EQUALIZATION
- 1 Increment by 1 Feedback returns EQ=21
- 1 Increment by 1 (EQ=22)
- 1 Increment by 1 (EQ=23)
- 1 Increment by 1 (EQ=24)
- 1 Increment by 1 (EQ=25)
- ESC Return to SETUP menu
- ESC Return to the Main Menu

3. Display Card Status

Starting from the Main Menu, follow the keystrokes below.

3 Displays card status

TROUBLESHOOTING GUIDE

We have carefully tested and have found no problems in the supplied **MT103-127/128**; however, we would like to offer suggestions for the following:

8.1 NO DISPLAY

Cause 1: The source has a problem.

- Solution: Check the source and make sure that there is a signal present and all source connections are correct. If the source is working and there is still no display, see Cause 2.
- Cause 2: Cable connections to the destination are incorrect.
- Solution: Make sure that cables are connected properly. Also, make sure that the continuity and wiring are good. If there is still no display present, see Cause 3.

Cause 3: The display has a problem.

Solution: Make sure that the display is powered. If there is still no display, call ALTINEX at (714) 990-2300.



ALTINEX POLICY

9.1 LIMITED WARRANTY/RETURN POLICY

Please see the Altinex website at <u>www.altinex.com</u> for details on warranty and return policy.

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9.2 CONTACT INFORMATION

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