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REVISION HISTORY

<u>REVISION</u>	<u>DESCRIPTION</u>	<u>DATE</u>
1.0	Initial Release	Sept 09

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Although every attempt has been made to accurately describe the features, installation and operation of this product in this manual, no warranty is granted nor liability assumed in relation to any errors or omissions unless specifically undertaken in the Evertz sales contract or order confirmation. Information contained in this manual is periodically updated and changes will be incorporated into subsequent editions. If you encounter an error, please notify Evertz Customer Service department. Evertz reserves the right, without notice or liability, to make changes in equipment design or specifications.

WARNING



Never look directly into an optical fiber. Non-reversible damage to the eye can occur in a matter of milliseconds.



Do not hook up the 7707CVT-8 series DWDM cards and any 7707CVR-8 series cards directly with a short fiber optic cable. The 7707CVT-8 series DWDM card produces +7dBm of power, which will damage the receiver if connected directly.



Do not hook up the 7707CVT-8 series cards that output more than -7dBm of power (see 7707CVT-8 series specifications for output power of various laser types). The 7707CVT-8 series cards that produce more than -7dBm of power will damage the receiver if connected directly.

1. OVERVIEW

The 7707CVT-8 is a VistaLINK[®]-capable, composite analog video fiber transmitter for broadcast quality video signals. This single card module accepts eight NTSC or PAL analog video inputs, performs analog to digital conversion and transmits them over a single fiber. The companion 7707CVR-8 Analog Video Fiber Receiver demultiplexes the signals and converts them back to analog form. The fiber optic output of the 7707CVT-8 is available in an assortment of optical wavelengths, accommodating 1310nm/1550nm, CWDM and DWDM transmission schemes.

The 7707CVT-8 occupies two card slots and can be housed in a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 7 modules, a 350FR portable frame which holds up to 3 modules, or a standalone enclosure which will hold 1 module.

Features:

- Single card fiber optic transmitter for up to eight analog video signals
- Supports both NTSC and PAL video signals
- Broadcast quality analog video performance
- Meets or exceeds EIA/TIA RS250-C short haul specifications for analog video transport
- Signal transport over fiber is uninterrupted by loss of input video feeds
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK[®]
- VistaLINK[®] capability is available when modules are used with the 3RU 7800FR or 350FR portable frame and a 7700FC VistaLINK[®] Frame Controller module in slot 1 of the frame
- Adjustable equalization for up to 250m of Belden 1694A coaxial cable
- Fully hot-swappable from front of frame with no fiber disconnect/reconnect required
- Supports single-mode and multi-mode fiber optic cable
- Optical output wavelengths of 1310nm, 1550nm, and up to sixteen CWDM wavelengths (ITU-T G.694.2 compliant)
- DWDM wavelengths (ITU-T G.694.1 compliant) also available

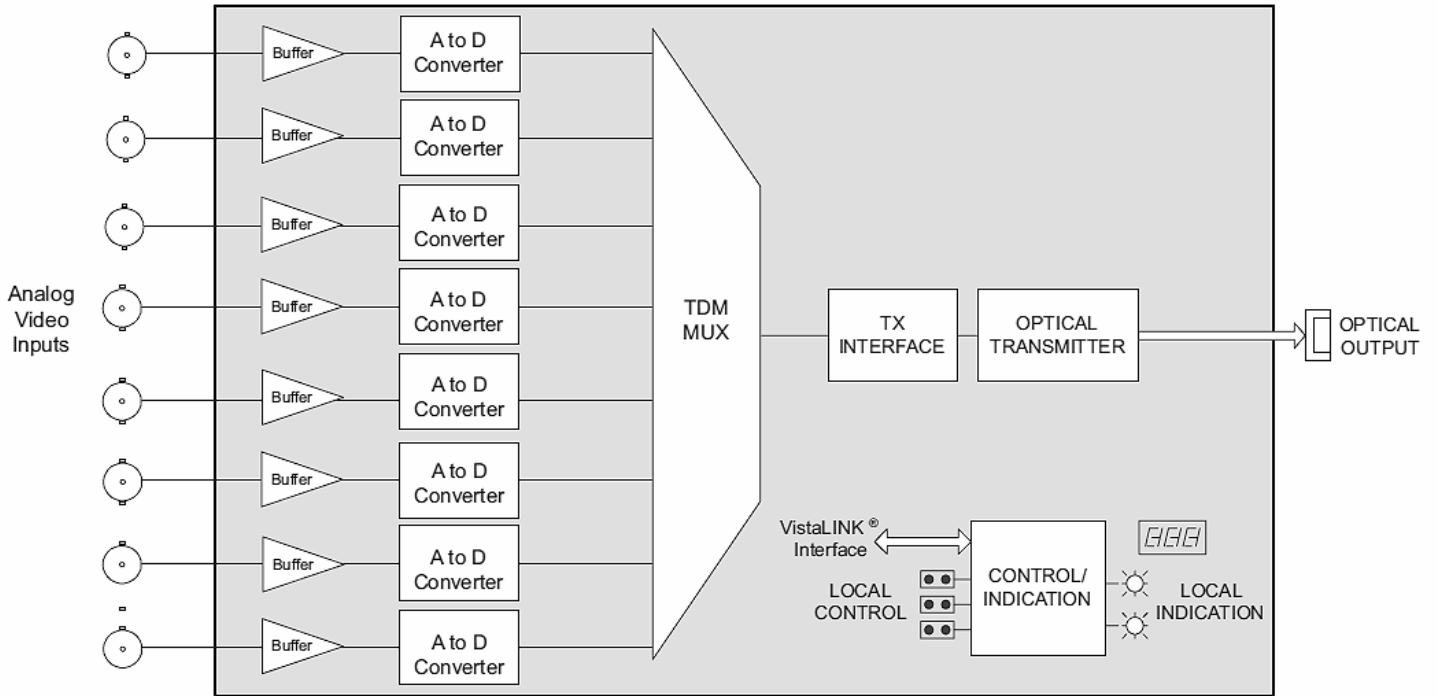


Figure 1-1: 7707CVT-8 Block Diagram

2. INSTALLATION

The 7707CVT-8 comes with a companion rear plate that has eight BNC connectors and one SC/PC, SC/PC with cover flap, ST/PC or FC/PC optical connector. For information on mounting the rear plate and inserting the module into the frame see section 3 of the frame chapter.

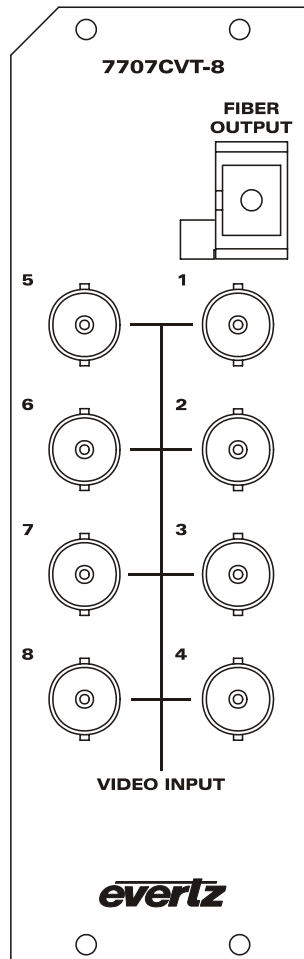


Figure 2-1: 7707CVT-8 Rear Panel

VIDEO INPUT

1 to 8: Input BNC accepts analog NTSC and PAL video signals. There are separate video inputs for each of the video signals. This input provides equalization compensation for up to approximately 250m of industry standard Belden 1694 coaxial cable.

OPTICAL OUTPUT: Output SC/PC, SC/PC with cover flap, ST/PC or FC/PC female connector. This output contains the Time Domain Multiplex (TDM) of the digitized analog video signal.

This optical output is available in 1310nm, 1550nm, up to sixteen CWDM wavelengths (ITU-T G.694.2 compliant) and up to 40 DWDM wavelengths (ITU-T G.694.1 compliant). The output wavelength is marked on the rear panel of each module. When connected directly to a companion module, the output is compatible with multi-mode fiber optic cable. If not connected directly (i.e. connected through CWDM, DWDM, WDM, or splitter/combiner) the output is compatible only with single-mode fiber optic cable.



Do not hook up the 7707CVT-8 series DWDM cards and any 7707CVR-8 series cards directly with a short fiber optic cable. The 7707CVT-8 series DWDM cards produce +7dBm of power, which will damage the receiver if connected directly.



Do not hook up the 7707CVT-8 series cards that output more than -7dBm of power (see 7707CVT-8 series specifications for output power of various laser types). The 7707CVT-8 series cards that produce more than -7dBm of power will damage the receiver if connected directly.

2.1. CARE AND HANDLING OF OPTICAL FIBER

2.1.1. Safety



Background colour: yellow
Triangular band: black
Symbol: black

CLASS 1 LASER PRODUCT

2.1.2. Assembly

Assembly or repair of the laser sub-module is done only at Evertz facility and performed only by qualified Evertz technical personnel.

2.1.3. Labeling

Certification and Identification labels are combined into one label. As there is not enough room on the product to place the label it is reproduced here in the manuals.

- There is no date of manufacture on this label as it can be traced by bar code label placed on the Printed circuit board of each Evertz plug-in module
- The Model number is one of: 7707CVT13-8, 7707CVT15-8, 7707CVTxx-8, (xx = 27, 29, 31, 33, 35, 37, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61) and 7707CVTDxxx-8 (Dyyy represents ITU Grid Channel: D200, D210, D220, D230, D240, D250, D260, D270, D280, D290, D300, D310, D320, D330, D340, D350, D360, D370, D380, D390, D400, D410, D420, D430, D440, D450, D460, D470, D480, D490, D500, D510, D520, D530, D540, D550, D570, D580, D590, D600)

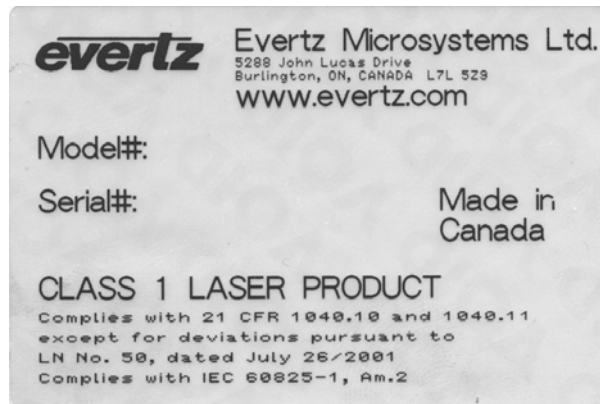


Figure 2-2: Reproduction of Laser Certification and Identification Label

2.1.4. Handling and Connecting Fibers



Never touch the end face of an optical fiber. Always keep dust caps on optical fiber connectors when not connected and always remember to properly clean the optical end face of a connector before making a connection.

The transmission characteristics of the fiber are dependent on the shape of the optical core and therefore care must be taken to prevent fiber damage due to heavy objects or abrupt fiber bending. Evertz recommends that you maintain a minimum bending radius of 5 cm to avoid fiber-bending loss that will decrease the maximum attainable distance of the fiber cable. The Evertz fiber optic modules come with cable lockout devices, to prevent the user from damaging the fiber by installing a module into a slot in the frame that does not have a suitable I/O module. For further information about care and handling of fiber optic cable see section 3 of the Fiber Optics System Design section of this manual binder.

3. SPECIFICATIONS

3.1. ANALOG VIDEO INPUT

Standards:	NTSC, SMPTE 170M, PAL, ITU-R 624-4
Number of Inputs:	8
Connector:	BNC per IEC 61169-8 Annex A
Signal Quantization:	12 bits
System Bandwidth:	5.5MHz
Input Level:	2 Vp-p (Maximum)
Gain Equalization:	Up to 250m of Belden 1694A or equivalent (adjustable)
Input impedance:	75Ω
Return Loss:	> 30dB to 5.5MHz
Signal/Noise Ratio:	> 70dB
Differential Gain:	< 1.0 %
Differential Phase:	< 0.7 °
Passband Ripple:	
NTSC:	< ± 0.1dB to 4.1MHz < ± 0.2dB to 5.5MHz
PAL:	< ± 0.1dB to 4.8MHz < ± 0.2dB to 5.8MHz
Chroma/Luma Gain:	98% to 103%
Chroma/Luma Delay:	
NTSC:	< 5ns
PAL:	< 12ns
Line Time Distortion:	1.2%

3.2. OPTICAL OUTPUTS

Number of Outputs:	1
Connector:	Female SC/PC, SC/PC with cover flap, ST/PC or FC/PC
Return Loss:	> 14dB
Wavelengths:	
Standard:	1310nm, 1550nm (nominal)
CWDM:	See Ordering Information
DWDM:	See Ordering Information
Output Power:	
1310nm FP (Standard):	-7dBm ± 1dBm
1550 & CWDM DFB:	0dBm ± 1dBm
DWDM:	+7dBm ± 1dBm

3.3. ELECTRICAL

Voltage:	+12V DC
Power:	13W (Non-DWDM) 15W (DWDM)

3.4. PHYSICAL (NUMBER OF SLOTS)

350FR:	2
7700FR-C:	2
7800FR:	2

3.5. COMPLIANCE

Laser Safety:	Class 1 laser product Complies with 24 CFR 1040.10 and 1040.11 IEC 60825-1
EMI/RFI:	Complies with FCC Part 15, Class A EU EMC directive

3.6. ORDERING INFORMATION

7707CVT13-8	Eight Analog Video Fiber Transmitter 1310nm FP Laser, VistaLINK [®]
7707CVT15-8	Eight Analog Video Fiber Transmitter 1550nm DFB Laser, VistaLINK [®]

CWDM & DWDM:

7707CVTxx-8	Eight Analog Video Fiber Transmitter CWDM DFB Laser, VistaLINK [®]
7707CVTDxxx-8	Eight Analog Video Fiber Transmitter DWDM DFB Laser, VistaLINK [®]

Ordering Options:	Rear Plate and Fiber Connector must be specified at time of order Eg: Model +SC +3RU
--------------------------	---

Rear Plate Suffix:

+3RU	3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe
+1RU	1RU Rear Plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Connector Suffix:

+SC	SC/PC
+ST	ST/PC
+FC	FC/PC

Enclosures:

350FR	3RU Portable Multiframe which holds up to 3 dual slot modules
7700FR-C	3RU Multiframe which holds up to 7 dual slot modules
7800FR	3RU Multiframe which holds up to 7 dual slot modules
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone Enclosure

4. STATUS INDICATORS AND DISPLAYS

The 7707CVT-8 series has 10 LED Status indicators and a 4 digit alphanumeric display on the front card edge to show operational status of the card at a glance. The card edge pushbutton and toggle switch are used to select various displays on the alphanumeric display. Figure 5-1 shows the location of the LEDs and card edge controls.

4.1. STATUS INDICATOR LEDES

Two large LEDs on the front of the board indicate the general health of the module:

LOCAL FAULT: This Red LED indicates poor module health and will be On if a laser fault exists, or if a local input power fault exists (i.e.: a blown fuse). The LOCAL FAULT indication can also be reported to the frame through the FRAME STATUS jumper.

MODULE OK: This Green LED indicates good module health. It will be On when the laser and board power are good.

There are eight small LEDs on the back side of the board that indicate the presence of video signals:

VIDEO 1 PRESENT: This Green LED indicates the presence of a valid signal on the Video 1 input.
This Amber LED indicates that Video 1 input is blocked.

VIDEO 2 PRESENT: This Green LED indicates the presence of a valid signal on the Video 2 input.
This Amber LED indicates that Video 2 input is blocked.

VIDEO 3 PRESENT: This Green LED indicates the presence of a valid signal on the Video 3 input.
This Amber LED indicates that Video 3 input is blocked.

VIDEO 4 PRESENT: This Green LED indicates the presence of a valid signal on the Video 4 input.
This Amber LED indicates that Video 4 input is blocked.

VIDEO 5 PRESENT: This Green LED indicates the presence of a valid signal on the Video 5 input.
This Amber LED indicates that Video 5 input is blocked.

VIDEO 6 PRESENT: This Green LED indicates the presence of a valid signal on the Video 6 input.
This Amber LED indicates that Video 6 input is blocked.

VIDEO 7 PRESENT: This Green LED indicates the presence of a valid signal on the Video 7 input.
This Amber LED indicates that Video 7 input is blocked.

VIDEO 8 PRESENT: This Green LED indicates the presence of a valid signal on the Video 8 input.
This Amber LED indicates that Video 8 input is blocked.

4.2. DOT-MATRIX DISPLAY / CARD STATUS AND CONTROLS

Additional status monitoring and controls are provided via the 4-digit dot-matrix display located at the card-edge. The card-edge toggle-switch (see Figure 5-1) is used to navigate through the display menus and the pushbutton is used to select options. Figure 5-1 provides a quick reference to the display menu structure.

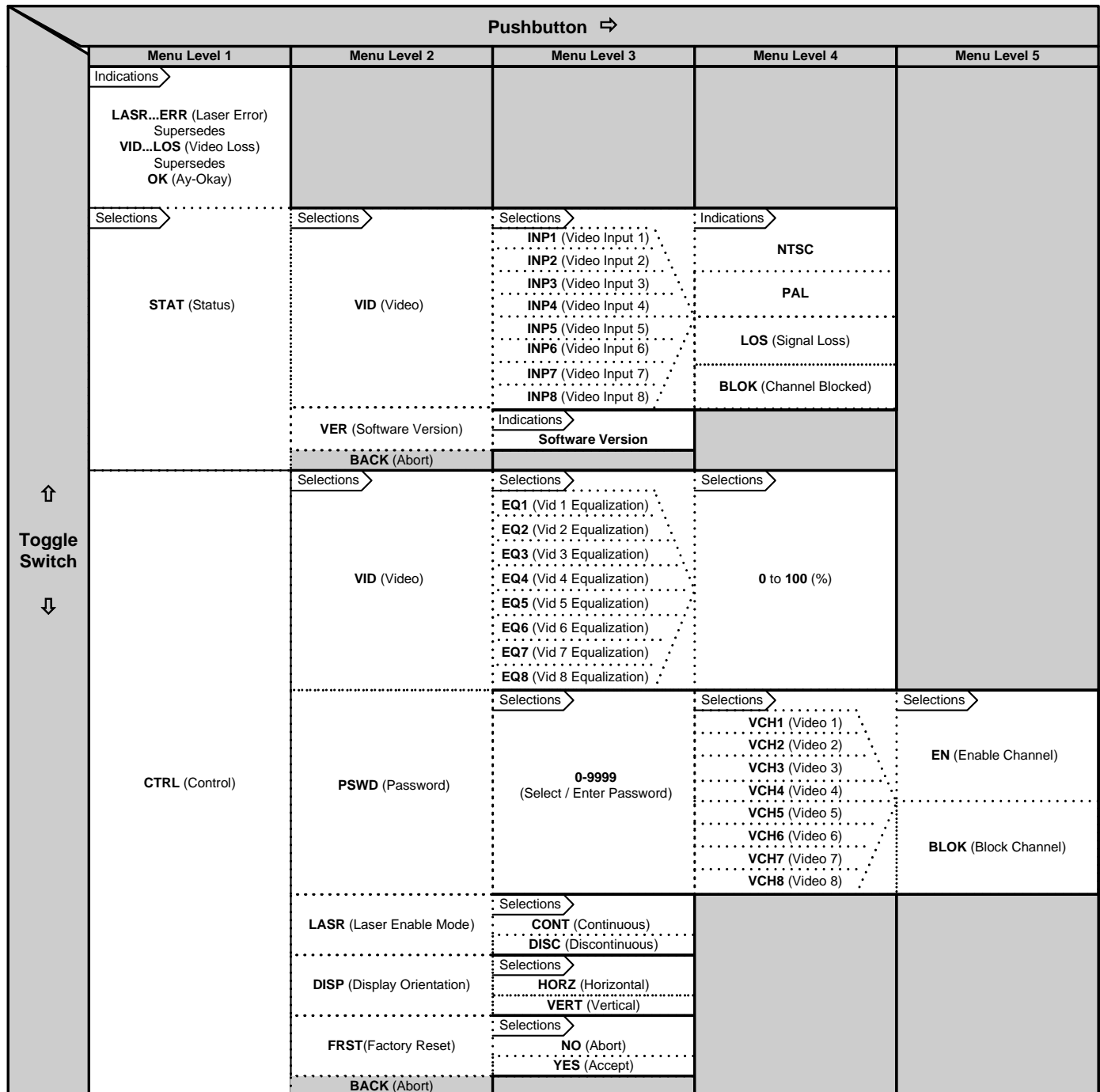


Figure 4-1: Card Edge Menu Structure

If a specific menu selection has a configuration value associated with it, then this may be changed using the toggle switch. Pressing the pushbutton will apply the displayed value and return you to the previous menu level.

The most recent user selection will be maintained in non-volatile memory in the event of power loss to the module.

4.2.1. Display of Warning Status Indications

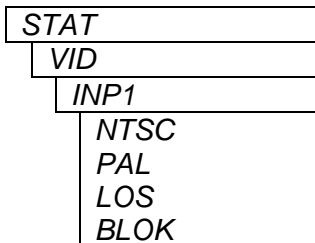
The top level, default display indicates overall card status and warnings:

OK	Card is functioning properly.
LASR...ERR	Laser Error Warning – Flashing indication alternates between LASR and ERR.
VID...LOS	No video input detected.

Pressing the pushbutton from this default display will allow the user to select from **STAT** (status) and **CTRL** (control) menu items.

4.2.2. Displaying the Video Standard

The 7707CVT-8 detects the video standard of the signals present at its inputs. To display the video standard, select the **STAT** menu item in menu level 1, select **VID** from menu level 2, then use the toggle switch to display the desired video channel (from **INP1** to **INP8**) and press the pushbutton to select it. For the sake of simplicity, only the **INP1** menu item will be described in the manual.

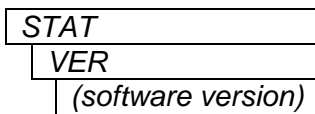


The video standard will be displayed from the list below:

- NTSC* displays that NTSC is present.
- PAL* displays that PAL is present.
- LOS* displays that there is a Loss of Signal.
- BLOK* displays that there is a Channel Block.

4.2.3. Displaying the Firmware Version

The **VER** option displays the card's current firmware version. To display the firmware version, select the **STAT** menu item in menu level 1 then use the toggle switch to display the **VER** option and press the pushbutton to select it.



The firmware version will scroll across the display.

For example: **VER 1.0 BLD 067**

4.2.4. Setting the Video Equalization

The *EQ* controls are used to set the amount of cable equalization being applied at the video input(s). It can be adjusted to compensate for various input cable lengths to achieve a flat frequency curve. The display shows a range of approximate cable length values expressed in meters for Belden 1694 cable or equivalent. When set to 0 the cable equalization is turned off.

To set cable equalization, select the **CTRL** menu item in menu level 1, select **VID** from menu level 2, then use the toggle switch to select the desired video channel equalization (from **EQ1** to **EQ8**) and press the pushbutton to select it. Use the toggle switch to set the equalization value of **EQ1** to **EQ8**. For the sake of simplicity, only EQ1 will be described in the manual.

CTRL
VID
EQ1
0 to 100

This control selects the amount of cable equalization that is applied at the video input(s).

0 to 100% Equalization range, describing a % value

4.2.5. Setting the Password for Channel Blocking and Selecting Channels to be Blocked

The 7707CVT-8 allows selective blocking of video channels 1 to 8 with a password. The default password is 7154.

To view the menu for channel blocking, use the toggle switch and pushbutton to select the **CTRL** menu item in menu level 1, then use the pushbutton to select the **PSWD** from menu level 2. Use the toggle switch to cycle through password 0...9999. Use the pushbutton to enter the password shown on the display in menu level 3.

CTRL
PSWD
0-9999
VCH1
VCH2
VCH3
VCH4
VCH5
VCH6
VCH7
VCH8
EN
DIS

In menu level 4 use the toggle switch and then pushbutton to select the following:

PWSL	Enter a new password 0...9999
VCH1	Select Video Input 1
VCH2	Select Video Input 2
VCH3	Select Video Input 3
VCH4	Select Video Input 4
VCH5	Select Video Input 5
VCH6	Select Video Input 6
VCH7	Select Video Input 7
VCH8	Select Video Input 8

To enable or disable blocking, select the video channel (**VCH1** to **VCH8**) menu item in menu level 4. Use the toggle switch to set the blocking parameter in menu level 5 of **VCH1** to **VCH8** individually.

EN	Enable Channel
BLOK	Block Channel



Without the correct password, the blocking or enable setting of each channel cannot be changed. The current Block or Enable status can only be viewed in menu level 5.

4.2.6. Controlling the Behavior of the Laser

On the 7707CVT-8 the **LASR** option allows the user to set the behavior of the laser transmitter when there is no video signal applied to the video inputs. To set the laser behavior, select the **CTRL** menu item in menu level 1, then use the toggle switch to display the **LASR** menu selection and press the pushbutton to select it. Use the toggle switch to choose between **CONT** and **DISC** and press the pushbutton to select the mode of operation.

CTRL
LASR
CONT
DISC

This control enables the user to select the laser enable mode.

CONT Laser will transmit continuously regardless of whether there are valid input video signals present on the inputs of the 7707CVT-8.

DISC The laser will turn off when there is no recognizable video on the 7707CVT-8 inputs.



With the 7707CVT-8 set to discontinuous mode, due to the laser turning off, the companion 7707CVR-8 will indicate an optical signal loss when no input video signal is present at the 7707CVT-8.

4.2.7. Setting the Orientation of the Text on the Card Edge Display

The **DISP** display option allows the user to set a horizontal or vertical orientation for the card edge display messages. To set the display orientation, select the **CTRL** menu item in menu level 1, then use the toggle switch to access the **DISP** menu selection and use the pushbutton to select it. Use the toggle switch to change between **HOR** and **VERT**. Press the pushbutton to make your selection.

CTRL
DISP
HORZ
VERT

This control enables the user to select the display orientation.

HOR Horizontal display used when the module is housed in the 1 rack unit 7701FR frame or the stand-alone enclosure.

VERT Vertical display used when the module is housed in the 3-rack unit 7700FR frame.

4.2.8. Resetting Factory Defaults

The **FRST** menu option will return the 7707CVT-8 to factory defaults. To return all settings to factory defaults, select the **CTRL** menu item in menu level 1, then use the toggle switch to display the **FRST** menu selection and use the pushbutton to select it. Use the toggle switch to change between **YES** and **NO**. Press the pushbutton to make your selection.

CTRL
DISP
YES
NO

This control enables the user to reset the setting to factory default.

YES Return all card settings to factory default.

NO Retain current settings. Abort the factory reset operation.

5. JUMPERS

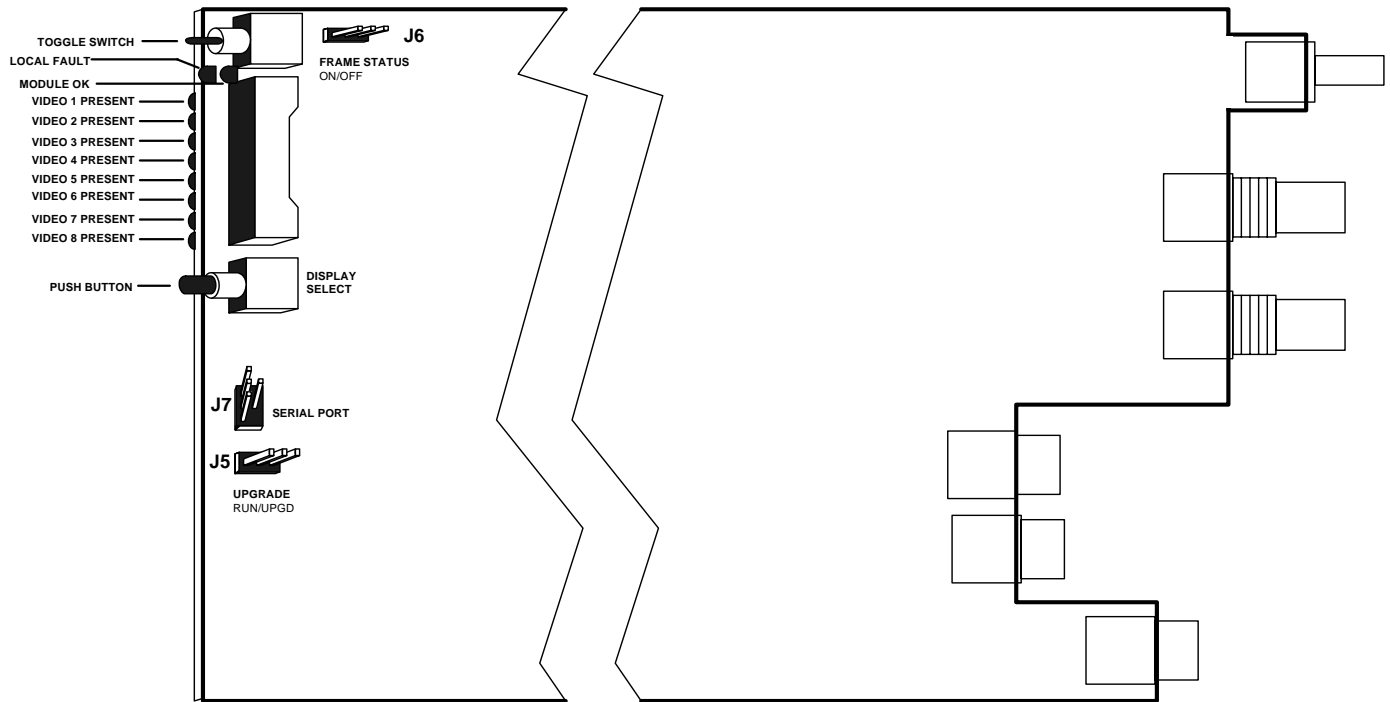


Figure 5-1: Location of Jumpers and Card Edge Controls

5.1. SELECTING WHETHER LOCAL FAULTS WILL BE MONITORED BY THE GLOBAL FRAME STATUS

The FRAME STATUS jumper J6 determines whether local faults (as shown by the Local Fault indicator) will be connected to the 7700FR frame's global status bus.

FRAME STATUS: To monitor faults on this module with the frame status indicators (on the Power Supply FRAME STATUS LED's and on the Frame's Fault Tally output) install this jumper in the On position. (Default)

When this jumper is installed in the Off position local faults on this module will not be monitored.

5.2. CONFIGURING THE MODULE FOR FIRMWARE UPGRADES

UPGRADE: The UPGRADE jumper J5 is used when firmware upgrades are being done to the module. For normal operation it should be installed in the *RUN* position. See the *Upgrading Firmware* chapter of this manual for more information.

To upgrade the firmware in the module unit pull it out of the frame. Move the UPGRADE jumper into the *UPGD* position. Install the Upgrade cable provided (located in the vinyl pouch in the front of this manual) onto the SERIAL header at the card edge. Re-install the module into the frame. Run the upgrade as described in the *Upgrading Firmware* section of this manual. Once the upgrade is complete, remove the module from the frame, move the UPGRADE jumper into the *RUN* position, remove the upgrade cable and re-install the module. The module is now ready for normal operation.

6. VISTALINK[®] REMOTE MONITORING/CONTROL

6.1. WHAT IS VISTALINK[®]?

VistaLINK[®] is Evertz's remote monitoring and configuration platform which operates over an Ethernet network using Simple Network Management Protocol (SNMP). SNMP is a standard computer network protocol that enables different devices sharing the same network to communicate with each other. VistaLINK[®] provides centralized alarm management, which monitors, reports, and logs all incoming alarm events and dispatches alerts to all the VLPro Clients connected to the server. Card configuration through VistaLINK[®] PRO can be performed on an individual or multi-card basis using simple copy and paste routines, which reduces the time to configure each module separately. Finally, VistaLINK[®] enables the user to configure devices in the network from a central station and receive feedback that the configuration has been carried out.

1. An SNMP manager, also known as a Network Management System (NMS), is a computer running special software that communicates with the devices in the network. Evertz VistaLINK[®] Pro Manager graphical user interface (GUI), third party or custom manager software may be used to monitor and control Evertz VistaLINK[®] enabled fiber optic products.
2. Managed devices (such as 7707CVT-8 cards) each with a unique address (OID), communicate with the NMS through an SNMP Agent. Evertz VistaLINK[®] enabled 7700 series modules reside in the 3RU 7700FR-C MultiFrame and communicate with the manager via the 7700FC VistaLINK[®] frame controller module, which serves as the Agent.
3. A virtual database, known as the Management Information Base (MIB), lists all the variables being monitored, which both the Manager and Agent understand. Please contact Evertz for further information about obtaining a copy of the MIB for interfacing to a third party Manager/NMS.

For more information on connecting and configuring the VistaLINK[®] network, see the 7700FC Frame Controller chapter.

6.2. VISTALINK[®] MONITORED PARAMETERS

The following parameters can be remotely monitored through the VistaLINK[®] interface.

Parameter	Description
Laser OK	Indicates whether the laser is operating without functional problems
Module OK	Indicates whether the module is operating without functional problems
Video 1 to 8 Standard	A range of values describing the detected video standard on channels 1 through 8
Video 1 to 8 Signal Valid Present	Indicates the presence of a valid video input signal on channels 1 through 8
Card Type	Indicates the card type (model number)

Table 6-1: VistaLINK[®] Monitored Parameters

6.3. VISTALINK® CONTROLLED PARAMETERS

The following parameters can be remotely controlled through the *VistaLINK®* interface.

Parameter	Description
Video 1 to 8 EQ	A range of values describing equalization being applied at Video input 1 to 8
Laser Mode Selection	Allows user to control the laser behavior when no video is present on the inputs
New Password	Allows user to change current password
Video 1 to 8 Enable	Allows user to block Video inputs 1 to 8

Table 6-2: VistaLINK® Controlled Parameters

6.4. VISTALINK® TRAPS

The following parameters can be remotely monitored through the *VistaLINK®* interface as trap statuses in the configuration View and traps in the Alarm View.

Parameter	Description
Laser OK	Indicates whether the laser is in good operating condition or not. <u>If there is a laser fault it will trigger the “Laser Not OK” trap in the VistaLINK® Alarm View.</u>
Video 1 to 8 Presence	Indicates if there is a valid input video signal present on video channel 1 through 8. <u>Loss of valid video signal will trigger the “Signal Unknown” trap in the VistaLINK® Alarm View.</u> NOTE: Always Loss when channel blocked.

Table 6-3: VistaLINK® Fault Status Parameters – Traps

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