



MANUAL PART NUMBER: 400-0171-001

VM2142AU

8-OUT AUDIO OUTPUT CARD FOR V-MATRIX™ WITH COVER PLATE USER'S GUIDE

TABLE OF CONTENTS

	Page
PRECAUTIONS / SAFETY WARNINGS.....	2
GENERAL.....	2
INSTALLATION	2
CLEANING	2
FCC / CE NOTICE	2
ABOUT YOUR VM2142AU	3
TECHNICAL SPECIFICATIONS	3
PRODUCT DESCRIPTION	4
APPLICATION DIAGRAM.....	4
INSTALLING YOUR VM2142AU	5
OPERATION.....	5
TROUBLESHOOTING GUIDE.....	5
ALTINEX POLICY	6
LIMITED WARRANTY	6
RETURN POLICY.....	6
CONTACT INFORMATION.....	6

PRECAUTIONS / SAFETY WARNINGS 1

Please read this manual carefully before using your **VM2142AU**. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **VM2142AU** and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

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 **VM2142AU** 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 **VM2142AU** carefully. Dropping or jarring can damage the card.
- Insert the card carefully into the slots of the V-Matrix™ 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.

ABOUT YOUR VM2142AU 2

VM2142AU 8-out V-MATRIX™ Audio Output Card

The **VM2141AU** is an 8-out Audio Output Card designed for use in a V-Matrix™ enclosure can handle a wide array of signal formats and connector types. When installed in a V-Matrix™ Basic Enclosure, these Audio Output cards enable the connection of eight audio sources. For inputs, the **VM2142AU** can be used with the **VM2141AU** 8-in Audio Input Card. See the **VM2141AU** for more information.

The 8-input video cards provide built-in ground loop isolation (GLI on Board™) through the use of differential inputs. This is an extremely important feature because it protects against hum bars and other interference caused by ground loops, which notoriously wreak havoc on large-scale matrix systems. Both the input and output video cards provide a bandwidth of 350 MHz @ -3dB, allowing them to pass extremely high-resolution computer video signals without signal degradation.

All input and output cards are “hot-swappable” with finger adjustable lock-down screws and secure, positive engagement card-edge connections.

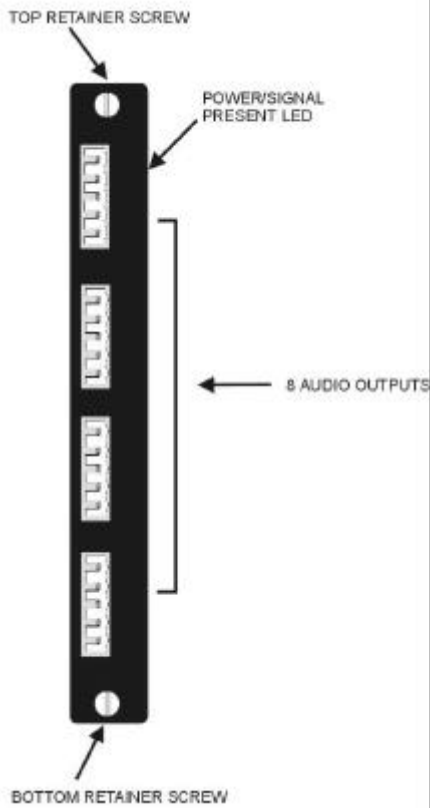
TECHNICAL SPECIFICATIONS 3

FEATURES/ DESCRIPTION	VM2142AU – 8- Output Audio Card
Output	(8)
Connectors	5-pin terminal blocks
Type	Differential (Balanced)
Impedance	<22 Ohms (drives 600 Ohms directly)
Crosstalk	<80dB @ 1kHz (all channels hostile)
Signal-to-noise-ratio	95dB
Bandwidth	10Hz to 40Hz

Table 1. **VM2142AU**

PRODUCT DESCRIPTION

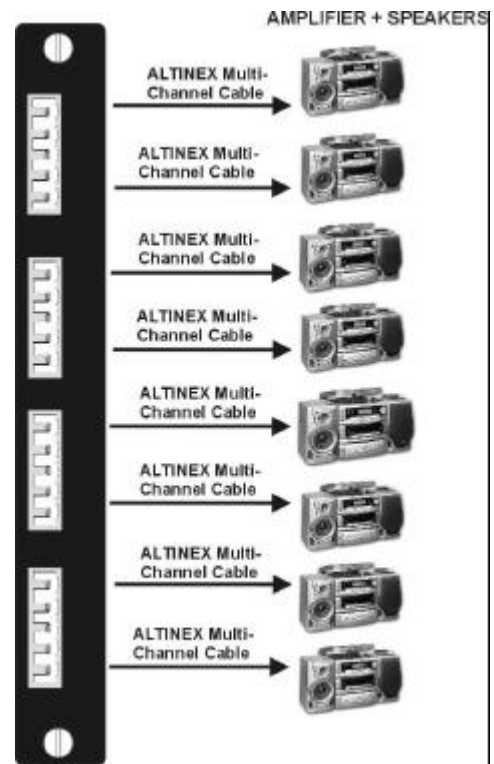
4



Note that card is shown with cover plate attached.

APPLICATION DIAGRAM

5



4

INSTALLING YOUR VM2142AU 6

Step 1. Slide the **VM2142AU** and the **VM2141AU** into available slots in the V-Matrix™ Enclosure. Make sure that the cards fit into place. Secure the cards to the V-Matrix™ by tightening the retainer screws located on the top and bottom of each cover plate.

Step 2. Connect audio cables from the audio source to the input connector of the **VM2141AU**. Connect the output connectors of the **VM2142AU** to the audio equipment through an audio cable.

OPERATION 7

The **VM2142AU** will operate successfully as long as the card is installed properly and other technical specifications are followed.

TROUBLESHOOTING GUIDE 8

We have carefully tested and have found no problems in the supplied **VM2142AU**; however, we would like to offer suggestions for the following:

- Make sure that power is connected to the enclosure and also check to see if the **VM2142AU** is pushed in all the way.
- If there is no sound, check the source and make sure that it is working at an appropriate volume level and all source connections are correct.
- Make sure that cables are connected properly. Also, make sure that the continuity and wiring are good.
- Make sure that the destination amplifier is powered. Set the volume of the destination amplifier to a reasonable level.
- Make sure that the source signal level is high enough so that the destination amplifier does not have to provide excessive amplification and thereby distort the signal.
- If there is problem with the **VM2142AU** please call ALTINEX at (714) 990-2300.

ALTINEX POLICY**9****9.1 LIMITED WARRANTY**

ALTINEX warrants that its products and cables are free from defects in materials under normal use and service. This warranty is limited to repairing at company's factory any part or parts of the product, which upon company's examination shall disclose to be, thus defective. Products considered defective should be returned to company with transportation charges pre-paid within 2 years (90 days for cables) from date of shipment to the purchaser. The warranty is expressly instead of all other warranties expressed or implied. ALTINEX neither assumes nor authorizes any other person to assume for it any other liability in connection with the sale of the products. This warranty shall not apply to any product that shall have been repaired or altered outside of company's factory in any way so as, in its judgment, to affect its stability or reliability, or that has been subject to misuse, negligence or accident.

9.2 RETURN POLICY

It is very important to ALTINEX that you receive the products that you have ordered and that this product fulfills your need. In the unlikely event, that an ALTINEX product needs to be returned please follow the policies below:

ALTINEX will accept product returns for a period of 30 days from authorized ALTINEX dealers. Products must be returned in an unopened package.

If a product has been opened, the restocking fees will apply. For the restocking fee amount, please contact an ALTINEX Sales Representative.

If the product is in your possession for more than 30 days, the restocking fees will apply.

ALTINEX will not accept any returns on cables or custom products.

If your product is in warranty and needs service, contact the ALTINEX Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service.

If your product is out of warranty and needs service, contact the ALTINEX Sales Department for an RMA

(Return Material Authorization). Products returned without an RMA number may experience a delay in service. The service charges will be quoted to you before the actual repairs are done.

9.3 CONTACT INFORMATION**ALTINEX, INC.**

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