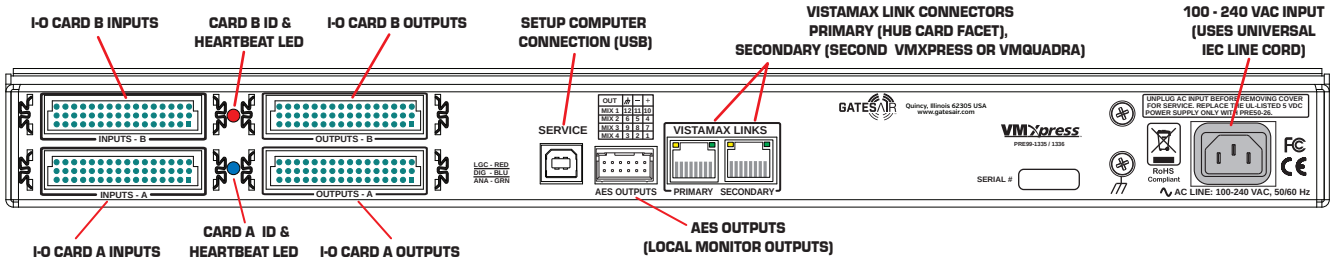
VMXpress PRE99-1335-x/PRE99-1336-x VMXPRESS

Quick Setup Guide



VMXPRESS, REAR VIEW, SHOWN WITH TWO I-O CARDS

GENERAL INFORMATION

VMXpress is a 1 RU signal interface for VistaMax audio management systems. It has two card slots to hold various combinations of VM Analog I-O, VM Digital I-O, and/or VM Logic I-O cards. VM Analog I-O or VM Digital I-O cards can go into either slot, but a VM Logic I-O card can only go into the upper card slot (Card B). The Card A and Card B ID LEDs identify the type of cards installed: green for VM Analog I-O; blue for VM Digital I-O; and red for VM Logic I-O.

VM Analog I-O cards have 16 discrete analog inputs and 16 discrete analog outputs (+4 dBu, balanced). VM Digital I-O cards have 8 AES inputs and 8 AES outputs. Either type of card can be set for any mix of mono, stereo, or multi-channel signals. VM Logic I-O cards have 16 GPIO (16 discrete inputs and 16 discrete outputs).

Note: VM Logic I-O cards have multi-switches to support remote panel logic. To change these requires that the top cover be removed. See the VM Logic I-O card Quick Guide (customer doc 71-1332) for details on the multi-switch settings. There are no settings on the VM Analog I-O or VM Digital I-O cards.

Card signal configuration is done using two GatesAir apps: VMSupervisor and VistaMax Control Center (VMCC). The current releases of the GatesAir software and documentation can be downloaded from the Radio Studio products FTP site or from the GatesAir Customer Portal. See customer doc 71-2010 for access details.

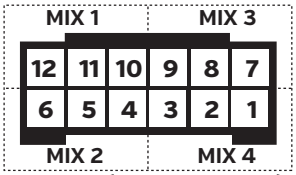
VMCC is used to inspect for, and add, new devices (like the VMXpress) to an existing VistaMax community. The VMXpress can also be manually added to VMCC, even before the device is actually connected. VMCC is used to name the audio inputs and outputs; assign their signal formats (mono, stereo, multi-channel); set return logic settings; and assign which VMXpress signals are included on other VistaMax devices. The VMSupervisor app, which can be run on the VistaMax admin computer with VMCC, or separately on a laptop, is where a Room Code is entered (for preamplified mic inputs that will be routed to RMXdigital console channels); where the type of logic control and input commands are set; where the logic is associated with audio inputs; where the output logic is assigned to specific timeslots; and where the logic control options (trigger by local and/or remote logic and trigger on state change vs. actuation) are set. Since VMSupervisor operates through a USB Host cable, which plugs into the USB Service port, the Room Code and the logic settings are stored in non-volatile RAM in the VMXpress. A USB connection is only required for configuration or test (the VMSupervisor can also verify the audio and logic input and output functionality).

Refer to the VM Family Operation Manual (customer doc 75-57) for further details on VMXpress installation, software configuration, product specifications, and servicing.

LINK CABLE WIRING	
T568A END	**T568B END**
PIN 1 (WHT/GRN)	PIN 3 (PAIR 3)
PIN 2 (GREEN)	PIN 6 (PAIR 3)
PIN 3 (WHT/ORG)	PIN 1 (PAIR 2)
PIN 6 (ORG)	PIN 2 (PAIR 2)

AES OUTPUTS

(viewed from wire insertion side)



SIGNALS (AES, BALANCED)
MOD IV PIN = SIGNAL

1 = MIX 4 HIGH (+)	7 = MIX 3 HIGH (+)
2 = MIX 4 LOW (-)	8 = MIX 3 LOW (-)
3 = CHASSIS GND	9 = CHASSIS GND
4 = MIX 2 HIGH (+)	10 = MIX 1 HIGH (+)
5 = MIX 2 LOW (-)	11 = MIX 1 LOW (-)
6 = CHASSIS GND	12 = CHASSIS GND

CONNECTION SUMMARY

On PRE99-1335-x versions, connect a crossover CAT6 cable (wiring table is above, right) from the Primary VistaMax Link RJ45 jack to any available VistaMax Hub card facet. The maximum Link cable length is 100 meters (about 330 feet). On a VMXpress with optical Links (PRE99-1336-x), use a multimode fiber cable (maximum length 2 km or 1.2 miles), terminated in MT-RJ connectors to connect between the Primary Link jack and any available optical facet on a VistaMax Hub card.

The Secondary Link jack can be used to “cascade” a second VMXpress, or a VMQuadra with no I-O cards installed, in order to fully utilize the signal carrying capacity of a Hub card facet. A VMXpress, and a VMQuadra with no I-O cards, each use half of the signals available on a facet, thus two devices can be cascaded together. Connect a Link cable from the Secondary Link jack to the Primary Link jack on the cascaded device. The maximum Link length is the same as for the Primary to Hub connection.

A 12-pin ***AES Outputs*** connector has four local monitor signal outputs (balanced AES format). Each output is a sum of four sequential input signals on the card in slot Card A. It is intended to give a summed output as a signal confidence monitor for audio servers. If audio servers are not connected to Card A then the ***AES Outputs*** connection is typically not used.

Refer to the Quick Guide for each type of I-O card (customer docs 71-1131, 71-1332, and 71-1334) for more detailed setup and configuration information including connector pinouts, accessories, product application, and card switch settings.

THIS DOCUMENT APPLIES TO
PRE99-1335-x & PRE99-1336-x

TITLE: INSTRUCTION SHEET, VMXPRESS SIGNAL INTERFACE FOR VISTAMAX SYSTEMS

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