

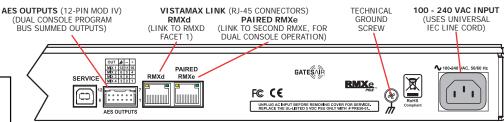
# PRE99-1538 RMXENGINE, FOR RMXDIGITAL CONSOLES

Quíck Guíde

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)



MIX 2 = PGM 1 SUM (10, 11, 1 MIX 2 = PGM 2 SUM (4, 5, 6) MIX 3 = PGM 3 SUM (7, 8, 9) MIX 4 = PGM 4 SUM (1, 2, 3)



RMXENGINE, REAR VIEW

### INSTALLATION AND CONNECTIONS

The RMXengine (RMXe) is a 1 RU rack-mounted device that expands the functionality of networked RMXdigital consoles running 600-series or later VistaMax system code. The RMXd DSP card PROMs must be 21-349-1 rev F or later (earlier revision DSP PROMs will not work with the RMXe).

The RMXe has an internal +5 volt DC supply with a detachable IEC AC cord. There is no power switch on the unit since it's designed for 24/7 operation. A front panel bezel lights up red to indicate the +5 volts is good.

The RMXe's main connection is between the **RMXd** jack and Facet 1 on the RMXd console. A customer-supplied CAT6 cross-over cable (max. length 100 meters) ties these two RJ45 jacks together. Both the yellow and green LEDs light up solid, on both RJ45 jacks, when a Link cable is properly connected.

The **PAIRED RMXe** jack (RJ45) and the **AES OUTPUTS** jack (12-pin MOD IV) are active only when two RMX*d* consoles are summed together for Dual Console Operation. This requires each console to have an RMX*e*. The summed Program buses (PGM 1 - 4 SUM) are then available for routing or directly from the four AES Outputs (Mix 1 - 4) on either RMX*e*.

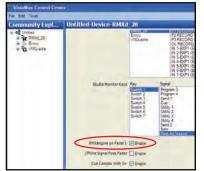
The USB connector (Service) is unused on this product.

#### **APPLICATION & CONFIGURATION**

The RMXe has two main functions: to create on-the-fly subtractive mix-minus signals for every DSP-hosted fader (the left-most eight, sixteen, or twenty-four faders, depending upon console frame size) and to create four new caller/remote record outputs. When the RMXe is also used for Dual Console Operation, with another RMXd and RMXe, the four summed stereo Program buses create the PGM 1 - 4 SUM outputs.

VMCC v2.2 (build 50 or later) is required to add the RMXe signals to the console include list. Check mark the option RMXengine on Facet 1.

The RMXe signals (signal numbers 65 -128) are then added to the Signal Summary Source and Destination lists.



In VMCC, check mark RMXengine on Facet 1 to add the RMXe signals

The rmxe\_setup.mac file sets up the signal routing between the RMXd console and the RMXe. A setup macro for each size RMXd console can be downloaded from any GatesAir Radio Studio Products download site. To setup the console simply save the appropriate rmxe\_setup.mac file to the SesFiles folder on the RMXd console. Adding its filename to the Chain Files entry in VMCC will ensure that it runs automatically whenever the init.mac file is run.



Chainging the rmxe\_setup.mac file to run whenever the INIT.MAC file runs

#### **USING THE RMXE**

The RMXe is completely software-controlled. All of its input and output signal numbers are listed in VMCC at the top of the console's Signal Summary Lists (the RMXe signals are 65 - 128). In most applications, the routes to the RMXe are made by the rmxe\_setup.mac file.

Signals from the RMXe (the up-to 24 mix-minus signals, four remote and caller record buses, and the four program bus sum signals when Dual Console Operation is used) are routed using any standard route commands: in a session or by a Protected Destination macro file; by manually taking the signal using a source selector; by VMCS commands from an audio server; by using an admin macro route, etc.

The channel's mix-minus signals are named: MME1 - 24 (MME = Mix-Minus Engine). Their signal numbers are from 65 (MME1) up to 112 (MME24R). The "left channel" is an IFB feed while the "right channel" is a clean feed (no IFB). The four remote and caller record feeds are signals 113 (P1 Record), 115 (P2 Record), 117 (P3 Record), and 119 (OL Record). The four Program Sum outputs are signals 121 (PGM 1 Sum), 123 (PGM 2 Sum), 125 (PGM 3 Sum), and 127 (PGM 4 Sum). **Note:** the PGM Sum signals are only active when two RMX*d* consoles, and two RMX*engine*s are Linked for Dual Console Operation.

For additional assistance, contact Wheatstone technical support at: techsupport@wheatstone.com or call 252-638-7000.

## THIS DOCUMENT APPLIES TO PRE99-1538

INSTRUCTION SHEET, RMXENGINE SIGNAL PROCESSOR FOR RMXDIGITAL CONSOLES



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DWG NO

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