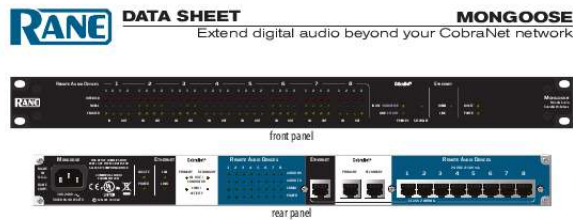




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE MONGOOSE. You'll find the answers to all your questions on the RANE MONGOOSE in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual RANE MONGOOSE
User guide RANE MONGOOSE
Operating instructions RANE MONGOOSE
Instructions for use RANE MONGOOSE
Instruction manual RANE MONGOOSE



General Description

The Mongoose and its Tracker software work with Rane's Remotes Audio Devices (RADs) and your CobraNet network to deliver digital audio to the "last mile" of installations – between the equipment room/rack and remote spaces. OK, it's not a mile, we live 175 actually 150 meters (492 feet to those in Liberia, Myanmar and the USA).

The Mongoose's 32-by-32 digital audio matrix router receives its first 16 audio channels from up to eight RADs via the eight rear panel S/PDIF (RJ-45) Remote Audio Device ports. The second 16 matrix input channels come from two eight-channel CobraNet receive (Rx) Bundles via standard CobraNet Primary and Secondary/backup ports. The 32 matrix router outputs transmit 16 channels to eight RADs and 16 more channels to two CobraNet transmit (Tx) Bundles.

A family of RAD models is shown to the right. Each converts analog audio to or from 24-bit, 48 kHz digital audio. Each RAD mounts in a standard US electrical gang box (except the RAD16, AM1 and AM2), typically scattered throughout a facility. Standard CAT 5 cable and termination transport four digital audio channels – two channels in each direction – as well as power, ground and a communications channel via Rane's proprietary RAD Network.

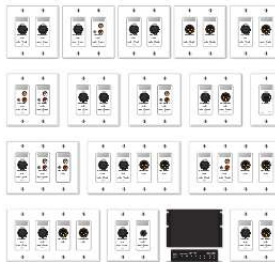


Mongoose's rear panel Ethernet port provides for direct or network connection to a computer running Rane's Mongoose Tracker software. Inexperienced users are assured easy network communications with Zeroconf (Link-local/DNS) and DHCP support. Gone are the days of installers requiring intricate IP knowledge. Yet, facility network managers can configure Mongoose like any other IP network device. The Ethernet port also supports Auto MDI/MDIX which automatically detects and permits either an Ethernet crossover cable (included) or a standard Ethernet cable to be used when directly connecting to a computer.

Features

- 32 by 32 digital audio matrix router.
- Receive 2 and transmit 2 CobraNet Bundles.
- Supports up to 32 digital audio channels from up to 8 RADs.
- Ethernet port supports DHCP, Zeroconf (Link-local & mDNS) & Auto MDI/MDIX.
- Mongoose Tracker setup software for PC is included.
 - Zeroconf-based Discovery automatically finds devices without IP setup or special IP knowledge.
 - Name each Mongoose, RAD and audio channel.

RAD Remote Audio Devices



...with more RAD models in development.

Data Sheet - 1



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.....

.UL
.cUL (Canada)

.....
.CE EMI: CE

.FCC Construction
.Size

.....
.Weight: Shipping: Size

.Weight: Specification 24-bit 24-bit 100BaseTx 492 feet / 150 meters 328 feet / 100 meters 328 feet / 100 meters 100 to 240 UL/cUL/CE UL6500
CAN/CSAE60065-00 LVD 73/23/EEC Part 15B All Steel 1.75"H x 19"W x 8.25"D 5 lb 4.5" x 20.3" x 13.75" 8 lb Limit Units Conditions/Comments Delta
Sigma 48 kHz sample rate 100 mega bit/sec; RJ-45 connector Mongoose to each RAD Standard Ethernet CAT 5 cable length limits Standard Ethernet CAT 5
cable length limits 50/60 Hz, 1.25 to 0.9 Amp File E193164 EN60065 EMC directive 89/336/EEC Class B Device 1U (4.4 cm x 48.
3 cm x 20.9 cm) (2.3 kg) (11.5 cm x 52 cm x 35 cm) (3.6 kg) ±10% VAC RAD Features & Specifications (all models) Parameter Signal Indicator Overload
Indicators Specification -50 -0.

5 Limit typ. typ. Units dBFS dBFS Conditions/Comments Unbalanced / Balanced Output, Green LED, Peak-Reading Unbalanced / Balanced Output, Red
LED, Peak-Reading Data Sheet - 7 MONGOOSE Extend digital audio beyond your CobraNet network RAD1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 18, 23
Features & Specifications Parameter Specification MIC INPUT SPECS (Both XLR & Euro RADs) Input Impedance 2.16 k Max. Input Level -17 Equivalent
Input Noise -121 Dynamic Range 98 CMRR -70 Frequency Response 30 to 20k THD+Noise 0.

010 Limit 1% min. typ. typ. typ. Units dBu dBu dB dB Hz % dB V dBu dB Hz % dBu dB dB Hz % Vrms Vrms dB Hz % Vrms dB Hz %
Conditions/Comments Balanced 1.08 k + 1.08 k Balanced, Gain = 26 dB, <1% THD 20 kHz BW, Rs = 150 , Gain = 26 dB re: 0 dBFS, 20 kHz BW, A-
weighted, Gain = 26 dB Rs = 150 , 1 kHz, Gain = 26 dB +0, -3dB, At All Gain Settings @ 1 kHz, 20 kHz BW, Rs = 150 , Output = -6 dBFS, Gain = 26 dB In
1 dB Steps 15 mA Max. Each Leg Each Leg Balanced, <1% THD, Load = 10 k re: 0 dBFS, 20 kHz BW, A-weighted +0, -3dB @ 1 kHz, 20 kHz BW, Output =
-6 dBFS Balanced 11.

09 k + 11.09 k Balanced, <1% THD re: 0 dBFS, 20 kHz BW, A-weighted Rs = 150 , 1 kHz +0, -3dB @ 1 kHz, 20 kHz BW, Rs = 150 , Output = -6 dBFS
Unbalanced Unbalanced, <1% THD Unbalanced Unbalanced, <1% THD re: 0 dBFS, 20 kHz BW, A-weighted +0, -3dB @ 1 kHz, 20 kHz BW, Rs = 150 ,
Output = -6 dBFS Unbalanced Unbalanced, <1% THD, Load = 10 k Re: 0 dBFS, 20 kHz BW, A-weighted +0, -3dB @ 1 kHz, 20 kHz BW, Output = -6 dBFS
Gain Range 26 to 60 typ. Phantom Power +24 4% Impedance 1.21 k 1% @@Output Level 18 min. Dynamic Range 103 typ. Frequency Response 10 to 22k
typ. THD+Noise 0.017 typ. BALANCED LINE-LEVEL INPUT SPECS Input Impedance 22.18 k 1% Max.
Input Level 23 min. Dynamic Range 102 typ. CMRR -56 typ. Frequency Response 10 to 22k typ. THD+Noise 0.

004 typ. UNBALANCED LINE-LEVEL INPUT SPECS Input Impedance, Mono (RAD2, 20 k 1% RAD11 & RAD14) Max. Input Level, Mono (RAD2, 6 min.
RAD11 & RAD14) Input Impedance, Stereo (RAD6) 20 k 1% Max. Input Level, Stereo (RAD6) 3 min.
Dynamic Range 96 typ. Frequency Response 10 to 22k typ. THD+Noise 0.005 typ. UNBALANCED LINE-LEVEL OUTPUT SPECS Output Impedance, Stereo
(RAD6, 600 1% RAD8, RAD11) Max. Output Level, Stereo (RAD6, 3.3 min. RAD8, RAD11) Dynamic Range 98 typ. Frequency Response 10 to 22k typ.
THD+Noise 0.

028 typ. Data Sheet - 8 Extend digital audio beyond your CobraNet network RAD 16 Features & Specifications Parameter Input Impedance Max. Input Level
Equivalent Input Noise Dynamic Range CMRR Frequency Response THD+Noise Specification 2.16 k -16 -121 96 -62 41 to 20k 0.008 Limit 1% min. typ. typ.
typ. typ. typ.

Units dBu dBu dB dB Hz % dB V dB V dBu dB dB Hz % dBu dB Hz % Conditions/Comments Balanced 1.08 k + 1.08 k Balanced, Gain = 26 dB, <1% THD
20 kHz BW, Rs = 150 , Gain = 26 dB re: 0 dBFS, 20 kHz BW, A-weighted, Gain = 26 Rs = 150 , 1 kHz, Gain = 26 dB +0, -3dB, At All Gain Settings @ 1
kHz, 20 kHz BW, Rs = 150 , Output = -6 dBFS, Gain = 26 dB In 1 dB Steps 15 mA Max. Each Leg In 1 dB Steps 15 mA Max. Each Leg Balanced 11.
3 k + 11.3 k Balanced, <1% THD re: 0 dBFS, 20 kHz BW, A-weighted Rs = 150 , 1 kHz +0, -3 dB @ 1 kHz, 20 kHz BW, Rs = 150 , Output = -6 dBFS Each
Leg Balanced, <1% THD, Load = 10 k 20 kHz BW, A-weighted +0, -3 dB @ 1 kHz, 20 kHz BW, Output = -6 dBFS MONGOOSE Gain Range 26 to 60 typ.
Phantom Power +24 4% Impedance 1.21 k 1% Gain Range 26 to 60 typ. @@Input Level 23 min.

Dynamic Range 99 typ. CMRR -52 typ. Frequency Response 22 to 22k typ. THD+Noise 0.008 typ. @@Output Level 18 min. Dynamic Range 103 typ.
Frequency Response 10 to 22k typ. @@@@See the AM1 Data Sheet for details MIC INPUTS 1 2 3 4 5 6 7 8 OUTPUT CASCADE IN AUDIO TX AUDIO RX
COMM POWER SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG
LEVEL OL OUT NEW AM2 in 2010 AUTOMIXER RAD LOCATE POWER AM2 Automixer with 8 XLR Mic/Line Inputs, XLR Mix Output, and Cascadable
RAD Port. See the AM2 Data Sheet for details ©Rane Corporation 10802 47th Ave.

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