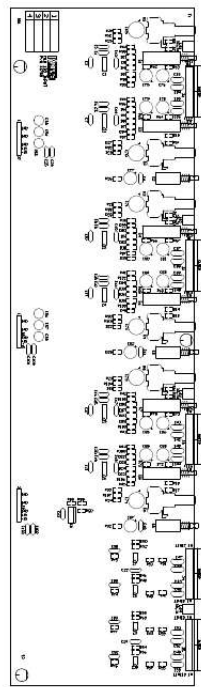




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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE MLM 103. You'll find the answers to all your questions on the RANE MLM 103 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual RANE MLM 103
User guide RANE MLM 103
Operating instructions RANE MLM 103
Instructions for use RANE MLM 103
Instruction manual RANE MLM 103



Rane Corp., (425)999-6000
104541 RES-IMPULV MLM 103 SHEET 1 OF 2
ACTION DESIGN FOR NEW IC, 1981 17KX00



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Manual abstract:

10 11 12 3.32K R64 R10 806 R95 PP2 6 5 4 R13 R14 806 806 R68 3.32K GND S6B 4P2T R101 10.0 R30 10.0 R22 301 S6A 4P2T MIC 3 2KRD 2 LINE 1 2
R4A 8 D5 ZMM12 10 22/25 D8 ZMM12 14 6 GND 11 D7 ZMM12 C7 C5 C6 0.1 0.1 0.1 C35 EMI R65 3.32K GND +15 -15 J1A + MIC2 INPUT 1 + MIC4
INPUT 1 2 3 PP1 +12 R26 12 11 10 SID R8 4P2T 806 GND C4 0.1 GND 4 5 6 C75 R34 10.
0K S2B 2P2T GND R62 1 2 3 3.32K 1 2 3 S2A 2P2T 10.0 +C77 100/50 GND R92 10.0 R25 S1C 4P2T R1A 2 3 PP2 +12 + 4 5 6 EURO 6 C34 EMI . R7 806
+ MIC3 INPUT 4 MIC1 INPUT - 10.
0 MIC 9 2KRD 8 LINE 7 2 1 R19 301 3 5 6 EURO 6 C38 EMI . @@@@ @ @10 11 12 3.32K R72 R107 C46 EMI . @@@@ . TO SHEET 6 LINE 7
MC33078D +15 C102 7 J9G 0.
1 C103 8 J9H GND 0.1 -15 C92 150PF R76 R54 C49 EMI 10.0K -15 6.34K 6 5 GND R61 10.0K +15 C52 EMI . Z10B 7 4 J9D TO SHEET 6 LINE 10
MC33078D 5 J9E C93 Z9A 1 R60 10.0K GND C51 EMI 10.0K MC33078D -15 GND 150PF R77 6.34K 6 5 GND Z9B 7 6 J9F TO SHEET 6 LINE 9
MC33078D INPUT 2 MLM 103 RG 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: 2 of 8 105351 F1 P1 4 T1 C30 0.33 0.
5VCT 3 C112 0.001 250V X1 Y2 2 D25 1A/600V 1 J6 H G N IEC LB5 0.001 2KVGND 0.0022 X1 Y2 C111 C113 0.001 250V C110 X1 Y2 3 2 1 C28 0.0022
X1 Y2 C29 0.0022 X1 Y2 1A 250V 360MA/250VAC 5 T2 9 D28 L1 10UH +15 +C31 56/400 D26 P6KE200 D27 MUR160 4 8 R78 MUR420 C32 10.0 R79 10
D31 2 6 1N4148 +C26 1.0/35V 1 7 XFMR 25/10 Z11 6 5 Q1 PWM 224Y 3DC1 4 NC 1 2 R84 R85 R86 3 20.0 100 1.
00K D32 0.001/2KV C60 10.0 D29 0.001/2KV MUR420 D30 R80 MBR745 C59 10.0 0.
001/2KV +C62 470/16 +C94 470/16 +C96 120/16 +C97GND 120/16 L2 10UH L3 10UH +5 -15 +C95 2200/6.3 +C98 120/16 GND S 2 +C99 47/25 R81
10.0 NC MOC8101 C27 0.1 TL431 R83 10.0K R87 R82 90.
9K 56.2K OUTPUTS 105351-8.SCH ACTION: (2) MUR420 WERE MBR3100 WAS DOC# 104542, SKH 03AUG01 DRAWN BY: PWR SUP MLM 103
6-Aug-2001 RJ CHECKED BY: H:\MLM103~\N105351-3.SCH RG 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: 3 of 8 105351 +15 R142 D9
R263 100K GND C61 8 0.1 1 TL072 -15 R138 R129 4.42K GND 0.1 1 3 C84 R10A 2 4.7/25 3 10.0K 1 +15 C62 8 0.1 1 4 C107 2 Z5A J7A 2 3 4 Z4A LS4148
D10 LS4148 +15 R137 C2 150PF +15 C65 R2B 20KB 2 R3A 20KB 3 4 TL072 1 R62 -15 6 5 GND 4 R3B 20KB R148 10.
0K D11 R264 LS4148 100K GND R147 C3 6 5 TL072 R104 GND 6.81K C43 6 5 GND R67 4 0.047 R5B 20KB R6A 20KB 3 3.01K C45 0.047 2 1 R68 2 3
GND 150PF +15 C66 8 0.1 1 3 Z2A 4 TL072 Z2B 150PF 7 R41 20.0K R42 20.0K C5 10.0K D12 LS4148 6 5 +15 R143 10.0K R130 4.
42K GND C85 R11A 2 4.7/25 5 Z5B 7 C108 Z4B 7 TL072 R144 10.0K 4 5 J7D 3.01K GND +15 GND 2 C42 0.047 3 Z1A 8 10.
0K MIC 1 OL D1 T1 RED R139 R140 10.0K 10.0K HIGH 6 5 GND C1 6 5 TL072 R101 GND 6.81K C41 6 GND R61 -15 3.01K 5 4 7 0.
047 J6H 8 20.0K 20.0K Z1B 150PF 7 R39 R40 10.0K R141 FROM SHEET 1 MIC 1 J6B 2 GND 2 1 +15 J6G 6.81K R2A 20KB R100 3 R99 6.81K 2 3.01K
J6A 1 R59 3 R1A 20KB 1 R60 3.01K C31 0.0047 4 R1B 20KB 10.0K 6 5 R10B 50KA 1 J7B TO SHEET 8 MIC 1 PRE/POST LOW LEVEL 1 R274 2 51.
1K 50KA GND MIC_1" 4.7/25 -15 MC33078D GND +15 R351 20.0K J7C 3 MID C21 0.01 MIC 2 OL D2 T1 RED R145 R146 10.0K 10.0K -15 6 7 8 J7G
J7H HIGH 6 GND 5 FROM SHEET 1 MIC 2 J6D 4 GND 2 1 R5A 20KB R103 3 6.81K R102 6.81K 2 3.01K J6C 3 R63 3 R4A 20KB 1 R64 3.01K C32 0.
0047 4 R4B 20KB 5 R11B 50KA 1 J7E TO SHEET 8 MIC 2 PRE/POST LOW LEVEL MID C22 0.01 3.01K 6 5 GND 4 R6B 20KB R154 D13 R265 +15 1 -15
R275 6 51.1K 50KA GND GND MIC_2" 4.7/25 R350 20.
0K J7F 6 MC33078D GND MIC 3 OL 6 R7A 20KB 1 R66 3.01K C33 0.0047 5 GND 4 R7B 20KB 10.0K LS4148 100K GND C64 D3 T1 RED HIGH FROM
SHEET 1 MIC 3 J6F 6 GND R8A 20KB R106 3 6.81K C44 0.
047 J6E 5 R65 3.01K 3 R153 2 C4 6 R105 6.81K 2 1 6.81K 6 5 GND 4 R8B 20KB 2 5 R107 GND 150PF +15 C67 8 0.1 1 Z3B 150PF 7 TL072 R43 20.0K
R44 20.0K C6 10.0K D14 LS4148 2 3 +15 R149 10.0K 0.1 Z6A 4 1 TL072 -15 R150 R131 4.
42K GND 10.0K R151 R152 10.0K 10.0K 8 6 5 R12B 50KA 1 +15 C63 C86 2 J8A 1 J8B 3 Z3A 3 8 0.1 1 C109 TO SHEET 8 MIC 3 PRE/POST LOW R69 1
R9A 20KB 3 3.01K 4 C46 0.047 2 1 R70 3 TL072 GND -15 50KA MID TONE 7-10 105351-6.SCH MIX/METER 105351-7.SCH MISC 105351-9.SCH C23 0.
01 3.01K 6 GND 5 4 R9B 20KB ACTION: GND GND MC33078D GND NO CHANGE TO THIS SHEET, WAS DOC# 104542, SKH 03AUG01 DRAWN BY:
TONE 4-6 105351-5.SCH 4 LEVEL R12A 2 4.7/25 R276 2 51.1K Z7A MIC_3" 4.
7/25 -15 R349 20.0K J8C 3 TONE 1-3 MLM103 2-Aug-2001 RJ CHECKED BY: H:\MLM103~\N105351-4.SCH RG 10802 47th Avenue West Mukilteo WA
98275-5098 SHEET: 4 of 8 105351 +15 R160 D15 R266 LS4148 100K GND D16 6 5 Z6B 7 TL072 R155 C8 150PF +15 C70 R14B 20KB 2 R15A 20KB 3 4
TL072 1 R74 -15 6 5 GND 4 R15B 20KB R166 10.0K D17 R267 LS4148 100K GND R165 C9 6 5 TL072 R113 GND 6.81K C49 6 5 GND 4 0.
047 R17B 20KB R18A 20KB R79 3 3.01K C51 0.047 2 1 R80 2 3 GND 150PF +15 C71 8 0.1 1 3 Z11A 4 TL072 Z11B 150PF 7 R47 20.0K R48 20.0K C11
10.0K D18 LS4148 2 3 +15 R161 10.0K 8 +15 3.01K GND GND 2 C48 0.047 3 Z10A 0.
1 1 3 8 10.0K R132 4.42K GND C87 R22A 2 4.7/25 5 Z7B 7 C110 R156 10.0K 4 5 J8D LS4148 MIC 4 OL D4 T1 RED R157 R158 10.0K 10.0K HIGH 6 5
GND C7 6 5 TL072 R110 GND 6.81K C47 6 GND R73 3.01K 5 4 +15 J9G 7 0.047 20.
0K 20.0K Z10B 150PF 7 R45 R46 +15 10.0K R159 FROM SHEET 1 MIC 4 J9B 2 GND R14A 20KB R109 3 2 1 6.81K R108 6.81K 2 3.
01K J9A 1 R71 3 R13A 20KB 1 R72 3.01K C34 0.0047 4 R13B 20KB 10.0K 6 5 R22B 50KA 1 J8E TO SHEET 8 MIC 4 PRE/POST LOW J9H 8 LEVEL 1
R277 6 51.1K 50KA GND MIC_4" 4.
7/25 R354 20.0KJ8F 6 MC33078D GND MID C24 0.01 -15 MIC 5 OL C73 0.1 Z8A 4 1 TL072 -15 R162 R133 4.42K GND C88 R23A 2 4.7/25 3 10.0K D5 T1
RED R163 R164 10.0K 10.0K +15 7 8 -15 6 J8G J8H HIGH 6 GND 5 FROM SHEET 2 MIC 5 J9D 4 GND 2 1 R17A 20KB R112 3 6.81K R111 6.
81K 2 3.01K J9C 3 R75 3 R16A 20KB 1 R76 3.01K C35 0.0047 4 R16B 20KB 5 R23B 50KA 1 +15 C68 8 0.1 1 -15 4 C111 2 Z9A J10A 1 J10B TO SHEET 8
MIC 5 PRE/POST LOW LEVEL 1 R278 2 51.1K 50KA MIC_5" 4.7/25 3.01K GND -15 R353 20.0KJ10C 3 MID C25 0.01 6 5 GND 6 4 R19B 20KB 4 R18B
20KB R172 10.
0K D20 R268 LS4148 100K GND GND +15 MC33078D GND MIC 6 OL D6 T1 RED +15 7 J10G HIGH FROM SHEET 2 MIC 6 J9F 6 GND R20A 20KB
R115 3 6.81K C50 0.047 J9E 5 R77 3.01K 3 R19A 20KB 1 R78 3.01K C36 0.
0047 2 R114 6.81K 2 1 6.81K 5 GND C10 6 5 R116 GND 6 5 GND 4 150PF +15 C72 R20B 20KB 2 8 0.1 1 150PF 7 Z12B TL072 R49 20.0K R50 20.
0K C12 R171 10.0K D19 LS4148 6 5 +15 R167 10.0K R134 4.42K GND R168 10.0K Z8B 7 TL072 R169 R170 10.0K 10.0K -15 6 8 J10H 5 R24B 50KA 4 5
C89 J10D 1 J10E 3 Z12A 5 7 C112 TO SHEET 8 MIC 6 PRE/POST LOW 3.01K MID C26 0.01 3.01K 6 GND 5 4 R21B 20KB ACTION: 1 R21A 20KB R81 3
4 C52 0.



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1K GND GND Z9B MIC_6" 4.7/25 R352 20.0KJ10F 6 MC33078D GND NO CHANGE TO THIS SHEET, WAS DOC# 104542, SKH 03AUG01 DRAWN BY: TONE 4-6 MLM 103 2-Aug-2001 RJ CHECKED BY: H:\MLM103~\105351-5.SCH RG 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: 5 of 8 105351 +15 LINE 7/8 OL FROM SHEET 2 LINE 7 2.00K 4.7/25 1 50KA GND R288 GND 1 4 2 S1A 5 S1B MONO 3 6 2P2T 2P2T 4 R26B 20KB R118 6 4 6.81K R119 GND -15 R85 5 6.81K R117 6.

81K TL072 R27B 20KB 6 3.01K C27 0.01 5 5.11K 26.7K 3 Z14A 1 C54 0.

047 4 R86 3.01K R284 47PF 2 8 -15 C100 C37 0.0047 +15 150PF 4 R280 2 51.1K 5 3.01K C13 3.

01K 20.0K 20.0K R31A 2 4.7/25 Z17A 0.1 1 R83 6 4 R84 R51 R52 C14 150PF +15 C74 2 3 GND 8 0.1 1 Z13A 4 TL072 -15 R181 10.0K C133 LINE 7" 4.7/25 R355 D22 LS4148 3 J11A 1 R301 3 8 C134 R25B 20KB LEVEL C90 MC33078D +15 C77 R182 10.0K D21 LS4148 R269 100K GND 2 3 +15 R173 10.0K 8 C76 0.

1 1 Z19A 4 TL072 -15 R174 R135 4.42K GND 10.0K D7 T1 RED HIGH R175 R176 10.0K 10.0K GND J11B 2 GND LOW C53 MID 20.0K GND FROM SHEET 2 LINE 8 3 2.00K 6 4.7/25 R281 6 51.1K GND R289 GND 6.81K C55 8 0.

047 -15 5.11K 26.7K 2 R26A 20KB R121 3 1 R285 47PS12A 10.0K 2P2T R198 S13A 10.0K 2P2T R199 S14A 10.

0K 2P2T R200 S15A 10.0K 2P2T R201 S16A 10.0K 2P2T R202 S9B 10.0K 2P2T R203 S10B 10.0K 2P2T R204 PUT HOLE IN PCB FOR CAL ACCESS C97 1 3 4.

7/25 R36 5KB 2 MIC3 B 1 2 3 MIC4 B 1 2 3 B FADER C159 1 4.7/25 MC33078D 3 GND 2 C158 4.7/25 R34A 100KC GND 5 R272 6 100K MC33078D Z21B R296 5.11K R297 5.11K GND 7 3 4 GND J1C MIC5 B 1 2 3 HDR F-BE 8P J1D C98 1 3 4.7/25 R37 5KB TO SHEET 8 B MIX HDR F-BE 8P 2 11 C117 0.01 GND D4 UPSIDE-DOWN C GIVES A Z23 BA6822S Q5 3 2907A 1 +5 MIC6 B 1 2 3 LINE 8" LINE 10" Q6 3 2907A 1 LINE 8 B 4 5 6 AUX +5 10.0K 7 J1G +10 LINE 10 B 4 5 6 2 G D58 MIC1 AUX MIC2 AUX MIC3 AUX MIC4 AUX MIC5 AUX MIC6 AUX LINE 7 AUX LINE 8 AUX LINE 9 AUX LINE 10 AUX 1 2 3 S17A 2P2T R205 S18A 10.0K 2P2T R206 1 2 3 S19A 10.0K 2P2T R207 1 2 3 S20A 10.

0K 2P2T 1 2 3 R208 S21A 10.0K 2P2T R209 1 2 3 S22A 10.0K 2P2T R210 1 2 3 S23A 10.0K 2P2T R211 1 2 3 S23B 10.0K 2P2T R212 4 5 6 S24A 10.0K 2P2T 1 2 3 R213 S24B 10.0K 2P2T R214 4 5 6 10.0K 8 HDR F-BE 8P J1H R309 2.21K 2 R310 2.21K AUX SUMMING C106 470PF R298 5.

11K +15 2 3 8 6 C83 0.1 1 Z22A 4 C138 1 4.7/25 3 GND -15 MC33078D GND 2 4 5 R35B 100KC GND HDR F-BE 8P 12 Z24 BA6822S D4 +5 C157 4.7/25 R35A 100KC GND 5 R273 6 100K Z25B 7 MC33078D R299 5.11K R300 5.

11K +15 6 5 GND Z22B 7 2 GND MC33078D 3 8 C69 GND Z25A 4 0.1 1 MC33078D GND AUX FADER TO SHEET 8 J1E 5 AUX MIX HDR F-BE 8P C99 1 3 J1F 4.7/25 R38 6 5KB 2 HDR F-BE 8P GND R215 1.00K 10 1 2 3 4 5 6 7 8 9 R313 2.49K R328 47.

5K C96 4.7/25 R314 R329 2.49K 47.5K R330 47.5K +5 11 D59 YEL PWR C119 0.01 GND ACTION: -15 NO CHANGE TO THIS SHEET, WAS DOC# 104542, SKH 03AUG01 DRAWN BY: MIX/METER MLM103 2-Aug-2001 RJ CHECKED BY: H:\MLM103~\105351-7.SCH RG 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: 7 of 8 105351 C148 C139 22PF R219 R220 6 5 MC33078P J10A 0.1 1 C149 100 22PF R221 3 R226 220PF R222 10.0K 5 MC33078P R334 5 100 6 GND 0.1 1 100 Z26B 7 R333 4 10.

0K +15 C123 8 6 10.0K R332 2 GND 1 100 Z25B 7 R331 10.0K 10.0K 220PF R218 J12D 4 1 C162 R215 2 3 4.7/25 10.0K S25A POST 2P2T 2 8 4 5 6 PRE 10.0K +15 C121 FROM SHEET 4 MIC 2 PRE/POST S25B 2P2T 3 MC33078P Z25A + DIRECT OUTPUT 2 +15 J12G 7 8 GND GND 4 5 6 3 4 EURO 6 MC33078P C150 LB7 22PF R231 R232 6 5 MC33078P GND 1 C151 22PF R233 R238 220PF R234 10.0K 5 GND 0.1 1 6 10.0K +15 C125 8 2 3 4 MC33078P GND -15 C143 220PF R242 10.

0K +15 C126 8 2 3 GND R241 R240 10.0K 10.0K 6 GND GND J14A 4 5 6 S30B 2P2T J14B 2 1 GND PRE 1 C167R249 2 3 10.0K 4.7/25 S30A POST 2P2T R247 R248 10.

0K 10.0K GND GND 2 3 GND 0.1 Z29A 4 1 MC33078P -15 C144 R250 220PF R246 10.0K +15 C127 8 0.1 Z30A 4 1 MC33078P -15 LB10 6 10.

0K 6 5 GND C153 22PF R245 10.0K Z30B 7 MC33078P R341 100 R342 100 5 4 R340 100 3 2 GND R244 10.0K 6 5 Z28A 6 10.0K Z28B 7 MC33078P R337 100 R338 100 5 4 R336 100 3 2 100 J16A 0.1 1 Z27B 7 R335 GND 10.0K 10.0K GND -15 C141 220PF R230 10.0K +15 C124 2 3 4 MC33078P GND -15 C142 Z27A 8 Z26A 1 C163 R225 2 3 4.7/25 10.0K S26A POST 2P2T 2 J12A 1 PRE GND 0.

1 C105 J12F 6 R217 R216 10.0K 10.0K 3 C104 J12C GND -15 C140 J12E 5 4 SLIELD + DIRECT OUTPUT 1 C147 220PF R252 +15 FROM SHEET 7 AUX MIX J15E 5 J15F C170 R251 4.7/25 10.0K 6 GND GND +5 J15G J15H 7 GND 8 GND C145 2 3 8 10.0K C122 0.1 Z31A 4 1 C156 MC33078P -15 R253 10.0K 22PF R254 6 5 10.0K Z31B 7 MC33078P R343 100 R344 100 3 2 J12H 0.1 -15 GND J11 1 SLIELD + AUX OUTPUT FROM SHEET 4 MIC 1 PRE/POST S26B 2P2T J12B 2 R223 R224 10.

0K 10.0K GND J13D 4 1 C164R227 2 3 10.0K 4.7/25 S27A POST 2P2T R229 R228 10.0K 10.

0K 6 GND GND J13A 1 1 C165R237 2 3 10.0K 4.7/25 S28A POST 2P2T R235 R236 10.0K 10.0K GND J14D 4 PRE 1 C166R239 2 3 10.

0K 4.7/25 S29A POST 2P2T 4 5 S29B 6 2P2T J14E 5 C108 J14C 3 GND PRE 4 5 6 J13B 2 GND PRE 4 5 6 J13E 5 GND - EURO 3 LB8 FROM SHEET 5 MIC 4 PRE/POST +15 S27B 2P2T J13C 3 J13F J13G 7 8 0.1 -15 GND 0.1 C107 J13H C106 + DIRECT OUTPUT 4 220PF R256 SLIELD + DIRECT OUTPUT 3 FROM SHEET 7 B MIX J15C J15D 3 4 C169 R255 4.7/25 10.0K 2 3 10.0K +15 C128 8 0.1 Z32A 4 1 C155 MC33078P GND -15 C146 R345 100 SLIELD EURO 6 C152 LB9 22PF R243 10.0K Z29B 7 MC33078P R339 GND 100 J17A 1 FROM SHEET 7 A MIX J15A J15B 1 2 22PF R258 GND R257 220PF R260 10.0K +15 C129 C168 R259 4.

7/25 10.0K 8 2 3 GND GND 0.1 Z33A 4 1 C154 MC33078P -15 R261 22PF R262 10.0K 6 5 GND R347 100 R348 100 6 10.0K 10.0K Z32B 7 MC33078P R346 100 J18A 1 2 3 4 5 6 + OUTPUT B FROM SHEET 4 MIC 3 PRE/POST S28B 2P2T - SLIELD + OUTPUTA + DIRECT OUTPUT 6 10.0K 5 Z33B 7 SLIELD MC33078P FROM SHEET 5 MIC 6 PRE/POST +15 J14G 7 8 0.1 -15 GND 0.1 C109 J14F J14H EURO 6 GND LB11 SLIELD GND + DIRECT OUTPUT 5 SLIELD EURO 6 FROM SHEET 5 MIC 5 PRE/POST ACTION: GND NO CHANGE TO THIS SHEET, WAS DOC# 104542, SKH 03AUG01 DRAWN BY: OUTPUTS MLM 103 2-Aug-2001 RJ CHECKED BY: H:\MLM103~\105351-8.SCH RG 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: 8 of 8 105351 .



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