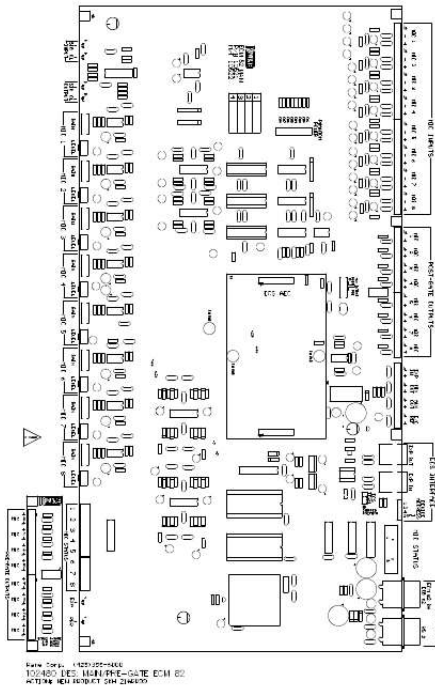




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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE ECM82. You'll find the answers to all your questions on the RANE ECM82 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual RANE ECM82
User guide RANE ECM82
Operating instructions RANE ECM82
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Instruction manual RANE ECM82



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Manual abstract:

J3 8 GND J11 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 AUDIO SIDE OF E/C SHEET 7 E/C POWER 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 DG DIGITAL SIDE OF E/C R190 L22 1 2 3 4 5 6 8 GND MIX IN GND J7 MIX OUT S-NET OUT GND 1 2 3 4 CHAN 1 SHEET 2 CHAN 1 + 9 GND 4 GND SHEET 2 POST GATE 3 3 2 SHEET 2 POST GATE 4 1 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 SHEET 4 8 7 6 GND 5 CHAN 3 4 3 GND 6 SHEET 3 POST GATE 6 5 4 J2A 12 GND 2 SHEET 3 POST GATE 8 1 J4 AG CHAN 6 1 2 3 CHAN 1 CHAN 3 SHEET 2 CHAN 3 + SHEET 3 POST GATE 5 7 CHAN 4 SHEET 2 CHAN 4 + CHAN 4 CHAN 5 SHEET 3 CHAN 5 + CHAN 5 CHAN 6 + 6 GND 5 CHAN 7 4 CHAN 7 SHEET 3 CHAN 7 + CHAN 8 SHEET 3 CHAN 8 + CHAN 8 CHANNELS 1-4 102731-2.SCH CHANNELS 5-8 102731-3.SCH E/C, MIX & AUX OUT 102731-4.SCH H:\ECM82\102731-1.SCH 21-May-1999 + 7 - 8 + 10 - 11 + 1 - 2 + 10 E/C TI SHEET 2 POST GATE 2 5 + + SHEET 7 E/C 8/16KHz SHEET 3 POST GATE 7 3 . 11 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 J20 8 R184 SHEET 3 SHEET 2 SHEET 3 SHEET 2 SHEET 3 SHEET 2 SHEET 3 SHEET 2 CHAN 8 CHAN 1 CHAN 7 CHAN 2 CHAN 6 CHAN 3 CHAN 5 CHAN 4 J22A 1 2 3 4 5 6 7 8 9 10 EG J23A 1 2 3 4 5 6 7 8 9 10 EG 301 C184 100pF R185 301 C185 100pF R186 301 C186 100pF R187 301 C187 100pF R188 301 C188 100pF R189 301 C189 100pF GND 7 PRE GATE 1 6 GND EG 5 PRE GATE 2 4 GND EG 3 PRE GATE 3 2 GND EG 1 PRE GATE 4 8 GND EG 7 PRE GATE 5 6 GND EG 5 PRE GATE 6 4 GND EG 301 C190 100pF MV-NET + 220pF EG L21 S-NET IN 4 3 PRE GATE 7 2 SHEET 7 . GND R191 MV-NET 220pF EG RJ-12 R176 100 C169 100pF 1 2 3 4 5 6 RJ-12 C56 820pF R49 EG EG /MIC_SIG 301 C191 100pF EG 1 PRE GATE 8 EG J21 EG PRE-POST PCB + + /PROG_SIG /SNET_BUSY SHEET 7 C170 100pF EG SHEET 6 /CHAN1 /CHAN6 /CHAN2 /CHAN7 /CHAN3 /CHAN8 /CHAN4 /CHAN5 22.1k C10 220pF EG 1/50 R53 47.5k 13 12 AG Z7D 14 4574 J8 1 6 2 7 3 8 4 9 5 0 10 EG DB9 FEM EG AVG AMPS C1-C8 102731-5.SCH STATUS LATCH & IN DISPLAY 102731-6.

SCH SLAVE PROCESSOR 102731-7.SCH POWER SUPPLY 102731-8.SCH ACTION: DERIVED FROM 102111 & 102478, Z7 WAS TL074, ADDED PRE-GATE CIRCUITRY, MIC IN WAS EXP IN, ADDED (1) 100 ohm (R176), ADDED NETS /MIC_SIG & /PROG_SIG, J8-9 WAS DG, SKH 24MAY99 CONNECTOR SHEET ECM 82 DRAWN BY: CHECKED BY: MS EMS 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: 1 of 8 102731 C19 R46 1 PHANTOM 16 100 .01 C11 47/25 L6 220pF CHAN 1 + 47/25 EG 2 3 L5 220pF CHAN 1 EG C20 R48 2 PHANTOM 15 100 .01 C12 47/25 L8 220pF CHAN 2 + 47/25 EG R119 1k C129 220pF AG +6dB +40dB +50dB S3A +12 SIG 1 C87 R11 1k +12 +C 44 R118 1k C128 220pF AG +6dB +40dB +50dB SHEET 6 + R28 100k AG S4 1 4 -12 7 3 4 1 C161 RG1 6 Z21 8 1/50 RG2 2 5 CHAN 1 GAIN AG VR1 10K SSM2017 C153 100/10 + AG R12 1k CHAN 1 100pF R1 301 R66 10k +7 CW SHEET 1,4,5 POST GATE 1 J1-10 SHEET 1 .

C1 100pF EG +12 2 1 R65 10k AG 2 3 AG 4 Z12A LM1973N 3 Z16A 11 1 4574 -7 C81 1/50 4 SG 5 SHEET 1 J3-7 CHANNEL 1 J1-11 SHEET 1 . + C43 R146 10k R138 100 R158 20 R107 1k 2 6 3 4 Z5A 11 1 CHAN 1 MIX SHEET 4 S3B 47/25 +12 4574 -12 AG SIG 2 R13 1k AG + S5 1 2 3 C46 4 R29 100k R14 1k 3 1 8 2 C111 +12 100pF 7 RG1 Z22 RG2 5 AG SSM2017 R147 10k R139 100 R159 20 C154 100/10 + SHEET 6 + AG CHAN 2 R2 -12 4 6 C162 1/50 CW SHEET 1,4,5 301 R87 10k CHAN 2 GAIN VR2 10K 1 AG Z12B LM1973N 3 2 R86 10k 6 5 AG Z16B 7 4574 C120 1/50 2 SG 1 J1-7 SHEET 1 . POST GATE 2 C2 100pF EG 6 20 5 Z5B SHEET 1 J3-5 CHANNEL 2 J1-8 SHEET 1 CHAN 2 47/25 EG C21 R52 3 PHANTOM 14 100 .01 C13 47/25 AG J1-4 SHEET 1 CHAN 3 + EG . @@@@.

L17 220pF R92 10k 1 R63 100 S3H 8 9 PHANTOM AG 9 9 10 AG Z17C 8 4574 C123 1/50 4 SG 5 6 10 Z6C 8 CHAN 7 MIX SHEET 4 4574 AG + R25 1k R35 100k R26 1k +12 SIG 8 C86 100pF R8 SHEET 6 CHAN 8 AG . SHEET 1,4,5 C40 + 47/25 R125 1k R114 1k + C39 47/25 AG +6dB +40dB +50dB L20 220pF S11 C135 220pF 1 2 3 4 CHANNEL 8 J2-2 SHEET 1 -12 7 3 4 1 C167 RG1 6 Z28 8 RG2 1/50 2 5 CHAN 8 GAIN AG VR8 SSM2017 10K R153 10k R145 100 R165 20 C160 100/10 + POST GATE 8 R71 10k CW 301 C8 100pF EG 13 2 1 R72 10k AG 12 AG Z17D 14 4574 C84 1/50 2 SG 1 SHEET 1 J4-1 Z14B LM1973N 3 20 13 12 Z6D 14 CHAN 8 MIX SHEET 4 4574 AG ACTION: DERIVED FROM 102111 & 102478, (8) 47/25 CAPS WERE 22/16, NEW MODEL NAME, Z6 & Z17 WERE TL074, SKH 24MAY99 DRAWN BY: CHECKED BY: CHANNELS 5-8 ECM 82 21-May-1999 MS EMS 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: H:\ECM82\102731-3.SCH 3 of 8 102731 +12 R126 26.7k 2.35V POST-GATE SHEET 2 1 SHEET 2 SHEET 2 SHEET 2 SHEET 3 R167 SHEET 3 1 100pF 10k SIP +12 2 3 11 4574 1/50 L28 220pF AG -12 R43 10k C47 .033 AG L1 220pF . R166 CHAN 1 MIX CHAN 2 MIX CHAN 3 MIX CHAN 4 MIX CHAN 5 MIX CHAN 6 MIX C57 CHAN 7 MIX CHAN 8 MIX 2 3 4 5 6 10k SIP 2 3 4 5 6 7 6 R127 6.04k .028V Z20B 1 LM339 +12 5 4 R128 75 AG 3 2 Z20A 12 LM339 -12 R D26 R156 2k G D25 R157 1k AG R45 C171 R129 1k 100pF R171 10k +12 C176 C172 C72 1 Z7B 18 16 5 7 R60 2 8 L29 220pF . E/C TI 301 SHEET 1 J11-7 EG SHEET 3 SHEET 3 Z7A 1 C50 BYPASS 8 E/C +5 +12 -12 2 5 4 7 3 E/C BYPASS Z4 Z14C LM1973N 4 6 4574 1/50 VL V+ VGND DG419 6 SG 17 10k R172 10k AG AG 3 Z29A 4 0.

1 1 4580 -12 R173 10k 6 5 AG 100pF R174 10k 7 Z29B 4580 SHEET 1 J11-15 EG R44 10k E/C TO . C41 R10 L2 220pF . MIX OUT 1/50 301 SHEET 1 J5-5 R9 100k EG SHEET 7 C9 1/50 EG R169 CHAN 1 1 CHAN 2 CHAN 3 CHAN 4 CHAN 5 R168 SHEET 3 SHEET 3 SHEET 3 CHAN 8 CHAN 7 CHAN 6 2 3 4 5 6 10k SIP 6 5 AG Z15B 7 4580 1 C103 100pF 10k SIP 2 3 4 5 6 SHEET 1 J5-7 MIX IN E/C IN EG PRE-GATE SHEET 2 SHEET 2 SHEET 2 SHEET 2 SHEET 3 R59 POST-GATE MIX 10k AG 9 1 S2 3 2 R47 10k AG PRE-GATE MIX 10 C71 22pF R62 5.62k Z7C 8 4574 R27 . L3 220pF AUX OUT 301 SHEET 1 J5-3 EG ACTION: DERIVED FROM 102111 & 102478, Z7 WAS TL074, ADDED MIX CIRCUITRY, SKH 15MAR99 DRAWN BY: CHECKED BY: E/C, MIX & AUX OUT ECM 82 21-May-1999 MS EMS 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: H:\ECM82\102731-4.SCH 4 of 8 102731 R77 47.5k D13 IN4148 +7 C99 R82 4 2 3 11 4574 C89 3.3/16 AG IN4148 + R79 47.5k D14 IN4148 +7 C101 1 ADC0 100 SHEET 7 D9 R73 SHEET 3 CHAN 5 0.1 3. 57k R84 2 3 AG 4 1 Z19A 11 4574 -7 D10 IN4148 R74 ADC4 100 C90 3.3/16 + SHEET 2 0.1 AG -7 3.57k Z18A CHAN 1 SHEET 7 AG R98 47.5k D17 IN4148 C115 R94 6 5 4574 AG AG C124 3.

3/16 IN4148 + R100 47.5k D18 IN4148 C117 R96 SHEET 3 ADC1 100 SHEET 7 CHAN 6 0.1 3.57k SHEET 2 0.1 3. 57k Z18B 7 R102 CHAN 2 D21 6 5 AG Z19B 7 4574 D22 IN4148 R104 ADC5 100 C125 3.3/16 + SHEET 7 AG R99 47.



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5k D15 IN4148 C116 SHEET 2 0.1 10 4574 AG IN4148 100 3.57k Z18C 8 R103 ADC2 C126 3.3/16 + R101 47.5k D16 IN4148 C118 D19 SHEET 3 SHEET 7 CHAN 7 0.1 CHAN 3 R95 9 R97 3.57k 9 10 AG AG Z19C 8 4574 D20 IN4148 R105 ADC6 100 C119 3.3/16 + SHEET 7 AG R78 47.

5k D11 IN4148 C100 SHEET 2 0.1 CHAN 4 R83 3.57k C102 13 12 AG Z18D 14 4574 D7 IN4148 R75 ADC3 100 C93 3.3/16 + R80 47.5k D12 IN4148 SHEET 3 SHEET 7 CHAN 8 0.1 R85 3.57k 13 12 AG AG Z19D 14 4574 D8 IN4148 R76 ADC7 100 C94 3.3/16 + SHEET 7 AG ACTION: NO CHANGE TO DOC, NEW MODEL NAME, DERIVED FROM 102111 & 102478 SKH 30DEC98 DRAWN BY: CHECKED BY: AVG AMPS C1-C8 ECM 82 21-May-1999 MS EMS 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: H:\ECM82\102731-5.SCH 5 of 8 102731 +5 C180 0.1 Z3 16 VCC D S0 S1 S2 G CLR 74HC259 DG +5 C173 0.

1 Z30 16 VCC D S0 S1 S2 G CLR 74HC259 Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7 1 2 3 /LATCH2 14 15 GND 13 8 4 DG 5 6 7 9 10 11 12 COM D29 Y PWR D30 Y COM_LED SHEET 7 PWR_LED R36 1k E/C 8/16KHZ SHEET 1 J12-20 +5 W1 .4 K1 OMIT Q1 OMIT 3 L27 3T R130 SHEET 2 SHEET 2 SHEET 2 SHEET 2 SHEET 3 SHEET 3 SHEET 3 SHEET 3 SHEET 3 SIG 1 10k R131 SIG 2 10k R132 SIG 3 10k R133 SIG 4 10k R137 SIG 5 10k R134 SIG 6 10k R135 SIG 7 10k R136 SIG 8 10k 2 3 AG C91 22pF R81 6.04k +12 8 1 Z15A 4 4580 -12 R115 1k R106 75 AG R117 6.04k .056V GND Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7 4 DG 5 6 7 9 10 11 12 1 2 3 4 5 6 7 8 9 11 21 31 41 51 61 71 81 GND 8 Z1 SHEET 1 10 20 30 40 50 60 70 80 DI 18 17 16 15 14 13 12 11 10 /CHAN1 /CHAN2 /CHAN3 /CHAN4 +12 /CHAN5 LDATA S0 SHEET 7 S2 /LATCH1 /RESET 14 15 S1 1 2 3 13 ULN2803 /CHAN6 /CHAN7 /CHAN8 +5 1 2 E/C POWER C42 1000/25 + SHEET 1 C51 0.

1 EG DG DG D1 OMIT + +12 R116 10k 4.55V 11 10 Z20D 13 LM339 R D24 R154 2k 9 8 Z20C 14 LM339 G D23 R155 1k AG ACTION: DERIVED FROM 102111 & 102478, ADDED (2) 0.1 (C173&C180), 74HC259 (Z30), NEW MODEL NAME SKH 30DEC98 DRAWN BY: CHECKED BY: Status Latch & In Display ECM 82 21-May-1999 MS EMS 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: H:\ECM82\102731-6.SCH 0.1 C108 0.

1 C110 0.1 C98 0.1 -7 Q4 LM337 +7 13 15 14 C75 0.1 Z14E IC LM1973N +6V -6V +6V -6V AG AG DG 3 AG -7 19 7 8 DG C78 0.1 ACTION: ADDED C181 0.1, (2) 1000/25 WERE 100/50, DEL L23,24,25 & R39, NEW MODEL NAME, DERIVED FROM 102111 SKH 30DEC98 DRAWN BY: CHECKED BY: POWER SUPPLY ECM 82 21-May-1999 MS EMS 10802 47th Avenue West Mukilteo WA 98275-5098 SHEET: H:\ECM82\102731-8.SCH 8 of 8 102731 .



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