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You can read the recommendations in the user guide, the technical guide or the installation guide for HAIER LE28M660C. You'll find the answers to all your questions on the HAIER LE28M660C in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Instruction manual HAIER LE28M660C

Haier®
LED Backlit Flat TV
INSTRUCTION MANUAL

LE22M600CF
LE24M600CF
LE28M600C
LE32M600C

Please read this manual carefully before operating the unit, and keep it for future reference.



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Manual abstract:

3V_AUX -> MOS --> V_3.3V MAIN_Power DDR3 V_5V --> SY8008D --> V_1.5V -> SY8009B --> V_1.0V 64X16 DDR3 SPI CODE/DATA FLASH
4MB/8MB AV OUT FULL SCART YBPBR1 AV Dual LVDS 10BIT CVBS YPbPr YBPBR2 AV/YPbPr Audio audio 1920x1080 PANEL USB USB CI+ TS
SIS289 EU analog Audio 3113&1517 SPDIF TS H/VSYNC RGB VGA(PC) PC/DVI L/R HDMIA/B TUNER HP_L/R I2C/IF EARPHONE HDMI*2
IR/KEYPAD INTERFACE 2012-5-21 D808 D808 TO-220B SBR20100 1 1 2 3 1 2 3 1 + C1037 2200pF C1039 1000uF/25V 10k R319 C1081 1000uF/25V
R870 33K H:ON L:OFF 3,4 3904 SIS_PSON R875 68k Q808 D812 1N4148 V_3.3V_AUX C1035 470uF/16V R858 10K EC806 + + 3uH-5A C1022 2200pF
L806 V_12V C1041 223/50V/0805 C1040 0.1uF/25V/0603 V_12V 2012-10-25 D804 RL207 450V FR107 D803 RL207 2012-11-6 -10uC D809 1N4007 T102
T103 ZY-T0134 PM38 NC/EFD25 2 D806 TO-220B SBR20100 C1038 0.1uF/50V/0603 +12VB Q806 QM3005 2 3 3 1 2 3 10 3 10 NP1 + EC805 100uF/450V
D807 RL207 D805 RL207 NC 12V 6 7 1 R865 BOM C1053 BOM 10uF/50 NP2 NB2 D811 R881 NC/FR107 NC/1M/1206 R882 NC/1M/1206 C1056 C1053
D801 0.1uF-50V-K-0805(X7R) 10uF/50V 22V-1/2W-1206 68K□-2W-J C1034 472/1KV 11 2 NC 12V 4 1 12 R869 47R-1206 3 12 R867 47R-1206 LF801
60mH ij0.45mm 2 6 8 NP2 NB1 CX1 0.22u/250VAC U807 R876 470K/1206 + R880 10R/1206 R877 470k/1206 R878 470k/1206 D809 1N4007 1 GND GND 8
4 5 5 9 5V 4 3 FB7 10R 10R GND D810 D810 1N4007 2 GND C1051 1n RI GATE 6 4 5V 5V CS 2 1 JR1 0R-1206 JR2 0R-1206 JR3 0R-1206 V_12V EC3
R885 1M/1206 R889 100R-0805 C001, EMC Q810 3906 Q811 SMK0870F 3 R888 1M/1206 CY800 471 CY801 471 GND R883 1M/1206 1M/1206 R884 2 FB
VDD 3 1 220uF/16V 470/16V C24 0.
1uF/25V/0603 R886 NC/24K-1206 BS 3 NC/SS VIN SW 5 D4 SS24-1206 + 4 1 +12VB R891 1K/0805 R892 22R-0805 C001 100P/1KV R893 470R-0805 8 1
R890 10K/0805 U2 +12VB EC3 470uF/16V C17 L2 10uH3.8A Q809 AO4468 V_5V R874 100K C1066 220uF/16V 470/16V C1068 102/25V/0805 2 3 1 3 2 4
+ C1061 0.1uF(X7R) C1063 0.1uF(X7R) C1066 470uF/16V 103/25V/0603 4 LF800 ij14*r7*H4mm-1mH 1 2 1 + C25 R898 1K R899 36K/0603
0.1uF/50V/0603 R894 470R/1206 1 R27 100K RT8296A FB ON/OFF 4 6 C22 3.
3nF/25V R34 200K R26 R35 36K/0603 R36 5.6K 1% NC 10uF(X5R) 66mV 57mV V_5V_AUX +5V_Standby 8 7 6 5 3 2 2012-8-1 DCN RV1 561 RV1 C1070
NC/2.2u-0805 RT1 NTC-5D7/5D2-07 U809 TL431 C26 3.3nF/25V R32 7.5K/0603 R901 100K R902 10K R898,R900,R901,R902 0603 0402 C1071 0.
1uF/25V/0603 R31 47K 14D561K RDH5-3A-W R895 R896 R897 R903 1R2-1206 1R2-1206 1R2-1206 1R2-1206 R900 1K 1 2 F800 3.15A 250VAC CY802
222 C26 1000P 3300P C23 101-0805 C23 0603 0805 2 EC4 470uF/16V R26 10uF(X5R) RT8296A GND COMP C1069 101-0805 U808 PC817 2 7 GND 9 2
1 J4 4PIN-2.0_FOR_TEST 2 1 2 1 TP1 J8 J3 TP2 TP5 V_5V TP4 J7 HS2 SIS_PSON V_12V TP3 V_5V_AUX 1 1 2 HS1 Radiator_for_Q806 2 3
Radiator_for_Q810 1 2 3 4 CN805 AC IN V_5V V_12V 2pin-2.0mm 2pin-2.0mm 2pin-2.0mm CN800 SW 1 2 1 2 3 V_5V_AUX SIS_PSON 1 2 GND 24 C1023
470uF/16V V_12V FB114 56-4A-1206 + C1021 470uF/16V R823 51K OVP C931 0.1uF-50V-K-0805(X7R) C1026 220uF/50V + C38 1uF-0603 L805
47uH-4.2A S1 Radiator_for_Q103 C1026 100uF/50V 220/50V LED+ 18.5 26 R850 R720 20K + U5 2 1 U5+U3 C1021 220uF/16V 470/16V L809 NC/47uH
L808 NC/47uH D10 SS310 D9 SS310 2 1 C39 220pF C40 220pF R70 22□-1206 1 LED1 1 CH1 EN VCC AGND SDBX SDB FB U3 ON/BK V_5V 20 19 1
UVLO OV EN VIN VCC OUT PGND R18 470K C750 C31 102/25V/0805 C32 103/25V/0603 CN802 CN804 CN803 NC/100pF R856 R860 R750 NC/47R
NC/1R-1206 NC/1R-1206 U5 AP3039A R832 10K R721 10K DRV C34 0.1uF-50V-K-0805(X7R) C37 101-0805 R826 1.

5K FB115 56-4A-1206 Q103 MDD1951 TO252-DPAK R700 47R-0603 LED2 2 CH2 CH3 CH4 PGND1 PGND2 CH5 ISET FBX NC PWM R76 10K BL-
ADJUST LED3 OVP DB ON/BK V_12V 100R R14 3 2 COMP FB SHDN AGND CS RT 8 9 3 4 1 2 10 LED+ 18 13 12 FB CN2 NC/HEADER 2 C35 GND
R700 22R 47R R2297 10K SS 14 LED4 4 3 4 5 DRV BX R828 8.2K R829 270K C14 1uF-0603-25V 17 16 SHD R831 51K 5 11 6 FB LED5 15 14 6 7 C27
1uF-0603 20K R830 C15 1uF-0603 C18 0.1uF(X7R) 0.1uF-50V-K-0805(X7R) SHD R839 3.3K 7 8 CH6 AP3608E CH7 CH8 11 12 9 10 13 2 3 4 1 2 LED6
LED7 LED8 R828 21.5 23.6 18K 8.2K R65 0.3□-1/4W-J-1206 R68 0.3□-1/4W-J-1206 R69 0.
3□-1/4W-J-1206 FB1 26 NC R834 R850 LED2 LED5 LED6 NC/100R-0603 NC R835 V_5V SHD LED+ LED+ LED5 LED6 LED7 LED8 NC/FOR CPT
CN806 NC/FOR CPT LED5 LED6 LED7 LED8 LED4 LED+ LED1 LED3 0R LED1 LED2 LED3 LED4 LED1 LED2 LED3 LED1 LED1 LED2 LED3 LED4
LED+ J2 CN2 R836 LED4 NC NC HEADER 12 U4 R838 10K ON/BK V_5V LED+ LED+ BL-ADJUST FB FB1 R843 NC/510K R845 NC/20K LED7 LED8
R837 LED5 LED6 LED7 LED8 LED+ LED5 LED7 LED3 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 NC/FOR CPT LED
V_3.3V R15 4.7K R16 1k R17 4.7k BL-ADJUST LED9 1 CH1 CH2 CH3 CH4 PGND1 PGND2 CH5 CH6 CH7 LED13 LED14 NC NC R853 10K BL-ADJUST
LED15 LED16 3 CN804 23.6, U4 R847 2 AP3608E EN VCC AGND SDBX SDB FB ISET FBX NC PWM 11 12 R849 20 19 18 17 16 DB BX LED9 LED11
LED12 1 CN2 CN805 18.
5 CN806 21.6 U3 U4 26",CN2 NC R841 8.2K R842 270K NC R848 LED10 R846 C16 1uF-0603 C20 0.1uF(X7R) 18.5 R844 NC/200K LED9 LED10 LED11
LED12 LED10 2 3 4 5 6 15 14 13 LED13 LED14 LED15 LED16 4 BL_ADJ 1 2 3 Q6 3904 LED11 1 2 3 4 5 6 7 8 9 10 11 12 HEADER 12 18.
5 C1030 2.15/23.6/26/32 C335 NC/10uF(X5R) LED13 LED14 LED15 LED16 7 8 9 10 CH8 D10 V_3.3V V_5V_AUX R19 10K L:ON H:OFF 4 SIS_BL_EN_N
R24 R20 4.7K ON/BK 1K 1 3 Q7 3904 echo gp301 > /dev/sisgpio echo gp300 > /dev/sisgpio 2 CLOCK OSC U16A XOSCI_24M XOSCO_24M OSCI_24M
OSCO_24M B20 A20 SPI_CLK SPI_DO DO DI XOSCI_24M XOSCO_24M OSC SPI_DI SPISPI_CS0N RXO0RXO1RXO2SIS_LVDSA_TX0_DN
SIS_LVDSA_TX1_DN SIS_LVDSA_TX2_DN 4 4 4 RXOCRXO3RXO4SIS_LVDSA_CLK_DN SIS_LVDSA_TX3_DN SIS_LVDSA_TX4_DN 4 4 4
RXE0RXE1RXE2SIS_LVDSB_TX0_DN SIS_LVDSB_TX1_DN SIS_LVDSB_TX2_DN 4 4 4 RXE3RXE4SIS_LVDSB_CLK_DN SIS_LVDSB_TX3_DN
SIS_LVDSB_TX4_DN SIS_LVDSA_TX0_DP SIS_LVDSA_TX1_DP SIS_LVDSA_TX2_DP 4 4 4 4 4 RXO0+ RXO1+ RXO2+ RXOC+ RXO3+ RXO4+
SIS_LVDSA_CLK_DP 4 SIS_LVDSA_TX3_DP 4 SIS_LVDSA_TX4_DP 4 SIS_LVDSB_TX0_DP SIS_LVDSB_TX1_DP SIS_LVDSB_TX2_DP
SIS_LVDSB_CLK_DP 4 SIS_LVDSB_TX3_DP 4 SIS_LVDSB_TX4_DP 4 LVDS_MODE_SET 4 4 4 4 RXE0+ RXE1+ RXE2+ RXEC+ RXE3+ RXE4+ B11
A11 B13 A13 R240 R242 R244 R245 33R SIS_SPI_CLK 33R FLASH_SPI_DI 33R SIS_SPI_DO 33R SIS_SPI_CS0_N Y1 24.576MHz_12.5pF_DIP
AUX_PWROK C49 RP23 20PF AUX_PWROK PWRBTN_N ENTEST ENDEBUB RP24 PWM1 SA_GPIO1/MAIN_LED SA_GPIO2/LCDVDD_EN
SA_GPIO3/EXT_LRSYNC SA_GPIO4 RP26 RP29 D10 C10 2012-8-31 1 A21 B21 GND R252 1K 3 C11 D11 GND 12 AUDIO_CTL 11 SPK_MUTE_N 7
RP27 TP16 HP_DET D16 C17 D17 D19 SA_GPIO5 SA_GPIO6/SPK_MUTE SA_GPIO7/SPK_EN SA_GPIO8/HP_DET 5 LED_G LCDVDD_EN C14 C15
A10 2 C48 MISC LVDS C48 Cload: 16pF C49 20pF 5 STB_LED_R 20pF 2 4 6 8 2 4 6 8 2 4 6 8 1 3 5 7 1 3 5 7 1 3 5 7 GND R33 GPIO23 6.8K SIS_SPI_CLK
LVDSA_TX0P LVDSA_TX0N LVDSA_TX1P LVDSA_TX1N LVDSA_TX2P LVDSA_TX2N LVDSA_CLKP LVDSA_CLKN LVDSA_TX3P LVDSA_TX3N
LVDSA_TX4P LVDSA_TX4N U21 U22 T21 T22 T23 R21 R23 R22 P21 P22 N21 N22 2 4 6 8 2 4 6 8 2 4 6 8 47RX4 1 3 5 7 47RX4 1 3 5 7
SIS_LVDSA_TX0_DP SIS_LVDSA_TX0_DN SIS_LVDSA_TX1_DP SIS_LVDSA_TX1_DN SIS_LVDSA_TX2_DP SIS_LVDSA_TX2_DN
SIS_LVDSA_CLK_DP SIS_LVDSA_CLK_DN SIS_LVDSA_TX3_DP SIS_LVDSA_TX3_DN SIS_LVDSA_TX4_DP SIS_LVDSA_TX4_DN 3 3 3 3 3 3 3 3 3 3
3 R223 10K GND SIS_MS_SCL SIS_MS_SDA HW TrapV_3.



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VSSQ VSSQ VSSQ VSSQ VSSQ VSSQ A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 BA0 BA1 BA2 RAS# CAS# WE# L2 K9 K1 GND DDR_CS_N
DDR_CKE DDR_ODT DDR_CLK_DP DDR_CLK_DN close to DDR L8 H1 M8 DDR_VREF R71 348_1%_0402 2012.



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22uF-0603 0.22uF-0603 R203 100R-0805 L27 20 ROUTR206 68K R208 0R-0402 R207 68K 3 3 Q10 3904 2 Q9 3906 1 3113 R201---68K R212---0R 1517 R201---6.8K R212---4.

7K 19 18 ROUT+ L28 33uH-2A C205 4.7uF/16V/X5R 2 1 33uH-2A R199 68K 25 24 23 22 C194 21 C195 33uH-2A LINP LINN OUTPL PGND OUTNL BSNL BSNR OUTNR PGND OUTPR BSPR PVCCR PVCCR GAIN0 GAIN1 AVCC AGND GVDD PLIMIT RINN RINP NC PBTL 29 GND BSPL PVCCL 27 R196 0R-0402 R197 NC/0R-0402 PVCCL 28 2 C187 1uF-0603 3 4 5 6 7 8 9 10 C200 1uF-0603 11 1uF-0603 12 C203 13 14 17 C204 16 0.22uF-0603 VCC_AMP 15 C199 0.1uF(X7R) MUTE_EN C186 4.7uF/16V/X5R V_5V V_12V VCC_AMP 5 C190 1uF-0603 10K GAIN0 SPK-OUTL SPK-OUTL V_3. 3V R198 R200 VCC_AMP GAIN1 10K 10R-0402R202 10R-0402R202 C193 1uF-0603 R205 R204 C196 1uF-0603 10K 10K C201 1uF-0603 C198 2.2uF C197 0.22uF-0603 C202 2.2uF EC13 EC13 220uF/16V 220uF/16V 2 1 5 SPK-OUTR SPK-OUTR R209 20K VCC_AMP FB8 56-4A-1206 V_12V echo gp060 > /dev/sisgpio echo gp061 > /dev/sisgpio 4 SPK_MUTE_N R212 0R-0402 R210 68K SPK_MUTE_N C206 33P Q11 3904 1 3 MUTE_EN 1517_MUTE_EN EC6 + U12 220uF/16V NC/TPA1517 FOR 2X3W AR+ C207 + + EC7 SVR EC8 1 EC9 1 2 NC/470uF/16V LOUT+ NC/1uF SPK-OUTL 1517_MUTE_EN AL+ C208 + 2 NC/470uF/16V ROUT+ NC/100uF/10V NC/1uF SPK-OUTR 20 19 18 17 16 15 14 13 12 11 GND/HS GND/HS GND/HS GND/HS GND/HS GND/HS GND/HS GND/HS GND/HS IN1 SGND SVRR OUT1 PGND OUT2 VCC M/SB IN2 GND/HS 1 2 3 4 5 6 7 8 9 10 4pin-2.54mm ROUT+ ROUTLOUTLOUT+ 1 2 3 4 CN6 2 R213 NC/0R-0805 R214 NC/0R-0805 1 2 3 4 S4 NC/HOT 1 Only for 1517 C209 C210 1000pF1000pF C209 2012-8-31 EN55020 C210 12PF 1000PF 2 R211 NC/68K .



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