EXPANSION BOARD

1k anode resistors must be 0,6W(minimum) due to 24V

BTN1 used to force camera TRIGGER

P2X CAMERA CONNECTOR
MUST be 0° (connection at the front face)
External connector to PIN 16 (=14) to be able to wire directly STROBE signal to the board

P2X CAMERA CONNECTIONS:

Pin 9, 13: VCC (= COM_OUT_EXP)
Pin 7, 25: GND (= COM_IN_EXP)

Pin 18: I1A (OUT_1_EXP)
Pin 19: I1B (GND)
Pin 6: I2A (OUT_2_EXP)
Pin 10: I2B (GND)

Pin 8: OUT1 (IN_1_EXP)
Pin 11: OUT 2 (IN_2_EXP)
Pin 14, 16: OUT 3 (IN_3_EXP)

Pin 2: RX (TX for CAMERA)
Pin 3: TX (RX for CAMERA)

Protected with jumpers:
Pin 4: AN_1
Pin 5: AN_2
Pin 23: 5V
Pin 24: 3.3V

IC6 TLP187
IC7 TLP187
IC8 TLP187
IC9 TLP187
IC10 TLP187

R32 200
R33 200
R34 1k
R36 1k
R49 1k
R35 1k
R48 1k
R50 1k

ANODE   COLLECTOR
CATHODE EMITTER

OUT_1_EXP_3V3
OUT_2_EXP_3V3
IN_1_EXP
IN_2_EXP
IN_3_EXP
COM_IN_EXP
COM_OUT_EXP
OUT_1_EXP
OUT_2_EXP
IN_1_EXP_3V3
IN_2_EXP_3V3
IN_3_EXP_3V3

3.3V
GND

X1
M25-HD-20

J1
CONN_01

LED21 LTST-C150KGKT
LED20 LTST-C150KGKT
LED17 LTST-C150KGKT
LED18 LTST-C150KGKT
LED19 LTST-C150KGKT

R51 470
R15 470
R12 470
R13 470
R14 470

IN_1_EXP_3V3
IN_2_EXP_3V3
IN_3_EXP_3V3
OUT_1_EXP_3V3
OUT_2_EXP_3V3

JP1E JP1 2 VCC 1 COM_OUT_EXP
JP1E JP3 2 5V   1 5V_2
JP1E JP2 2 GND 1 COM_IN_EXP
JP1E JP4 2 3.3V 1 3V3_2 3.3V
JP1E JP5 2 AN_1 1 AN_1_J
JP1E JP6 2 AN_2 1 AN_2_J

Check capacitors value and footprint

U3 MAX3232

C1+
C1-
C2+
C2-
VCC
V+
V-
T1IN
T2IN
R1OUT
R2OUT
T1OUT
T2OUT
R1IN
R2IN
GND

C5 0.1uF
C6 0.1uF
C7 0.1uF
C1 0.1uF
C4 0.1uF

TX_3V3
RX_3V3
TX
RX

3.3V
GND

SV3
MAIN BOARD CONNECTOR

16 15 IN_2_EXP_3V3
14 13 IN_1_EXP_3V3
12 11 OUT_2_EXP_3V3
AN_2_J 10 9 OUT_1_EXP_3V3
AN_1_J 8 7 GND
RX_3V3 6 5 3.3V
TX_3V3 4 3 5V
IN_3_EXP_3V3 2 1 VCC

TITLE: AIS_TC_V3_0

Document Number:

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