TIM_LCD

Card management rudder

Features of the board are:
12 Digital inputs 5V
5 Digital inputs for group accelerator
1 Analog input for group accelerator
9 Inputs for buttons (max 20 matrix)
1 (max 2) CAN-BUS terminated by jumpers
Graphic display 128x128 pixels B/N
Microcontroller RENESAS M16C 16 bit
EEPROM memory
24V DC battery with self-resetting fuse
PCB size 133 x 73 mm
Weight 130g

J1 Connector Mini Fit female male contacts 4-pin (2x2) → Power - BUS-CAN0
Pin 1 CANH0
Pin 2 CANL0
Pin 3 GND
Pin 4 +24V DC

J2 Connector Dubox female male contacts 10-pin (5x2) → Group accelerator
Pin 1 IN4 (24V)
Pin 2 IN2 (5V)
Pin 3 IN1 (5V)
Pin 4 +5V DC
Pin 5 INA0 (0-5V)
Pin 6 GND
Pin 7 +24V DC
Pin 8 IN5 (24V)
Pin 9 IN3 (5V)
Pin 10 GND

optional
J3 Connector Dubox female male contacts 4-pin → BUS-CAN1
Pin 1 CANH1
Pin 2 CANL1
Pin 3 GND
Pin 4 +5V DC

J4 Connector Dubox female male contacts 4-pin → Inputs 5V
Pin 1 GND
Pin 2 GND
Pin 3 IN11
Pin 4 IN10

J5 Connector Dubox female male contacts 4-pin → Inputs 5V
Pin 1 GND
Pin 2 GND
Pin 3 IN9
Pin 4 IN8

J6 Connector Modu II female male contacts 4-pin → JTAG

J7 Connector Dubox female male contacts 9-pin 90° → Buttons
Pin 1 INOUT0
Pin 2 INOUT1
Pin 3 INOUT2
Pin 4 INOUT3
Pin 5 INOUT4
Pin 6 INOUT5
Pin 7 INOUT6
Pin 8 INOUT7
Pin 9 INOUT8

J8 Connector Dubox female male contacts 10-pin (5x2) → Inputs 5V
Pin 1 +5V DC
Pin 2 GND
Pin 3 Key0
Pin 4 Key1
Pin 5 Key2
Pin 6 Key3
Pin 7 Key4
Pin 8 Key5
Pin 9 Key6
Pin 10 Key7

J9 Connector Dubox female contacts male 2-pin → Input 5V
Pin 1 GND
Pin 2 IN7

J10 20-pin connector → Graphic display 128x128 pixels B/N Type 1

optional
J10A 20-pin connector → Graphic display 128x128 pixels B/N Type2

J11 Connector Dubox female male contacts 2-pin → Input 5V
Pin 1 GND
Pin 2 IN6

optional

CC1 Jumper 3-pin → Settings Termination CAN-BUS 1 J3

Pin 1 CANH1
Pin 2 R_CAN1
Pin 3 R_CAN1

CC2 Jumper 3-pin → Settings Termination BUS-CAN0 J1

Pin 1 CANH0
Pin 2 R_CAN0
Pin 3 R_CAN0

CC3 Jumper 3-pin → address 0 BUS-CAN0

Pin 1 CAN0_add0
Pin 2 GND
Pin 3 GND

CC5 Jumper 2-pin → JTAG

CC6 Jumper 3-pin → Address 1 BUS-CAN0

Pin 1 CAN0_add1
Pin 2 GND
Pin 3 GND

CC7 Jumper 3-pin → Settings Reset

Pin 1 Switch SW1
Pin 2 Reset
Pin 3 MicroMonitor

optional

P1 Trimmer

Display contrast adjustment type 2

P2 Trimmer

Display contrast adjustment type 1

SW1 Switch

Button for reset

D4 LED

Power +24V DC

D7 LED

Errori

D8 LED

Cycle system

D9 LED

Power +5V DC

D13 LED
MicroMonitor reset