

DISPLAYS & IND LIGHTS DRIVER CONNECTORS

BUTTONS / SWITCHES / KNOBS CONNECTORS

EWMU / CMDS
DSUB1
DC-37 FEMALE
USE 24 AWG CABLE

EWPI
DSUB2
DB-25 FEMALE
USE 24 AWG CABLE

EWMU / CMDS
CN1 (IDC 2X13 PIN HEADER)
TO DB-25 MALE (PARALLEL PORT TYPE)

EWPI
CN2 (IDC 2X5 PIN HEADER)
TO DB-9 MALE (STRAIGHT THRU)

SOURCE	DC37 PIN	FUNCTION	SOURCE	DB25 PIN	FUNCTION	SOURCE	IDC 26 PIN	DB 25 PIN	FUNCTION	SOURCE	IDC 10 PIN	DB 9 PIN	FUNCTION							
5V PS +	1	+5V	5V PS +	1	+5V	TEENSY DGND	1	1	ROTARY SWITCH COMMON	TEENSY DGND	1	1	BUTTON COMMON							
5V PS GND	2	GND	5V PS GND	2	GND	TEENSY PIN 28	2	14	EWMU/CMDS MODE SWITCH - OFF	TEENSY PIN 19	2	2	PRI BUTTON							
5V PS GND	3	GND	5V PS GND	3	GND	TEENSY PIN 29	3	2	EWMU/CMDS MODE SWITCH - STBY	TEENSY PIN 21	3	3	SEP BUTTON							
5V PS GND	4	GND	N/C	4	N/C	TEENSY PIN 30	4	15	EWMU/CMDS MODE SWITCH - MAN	TEENSY PIN 20	4	4	UNK BUTTON							
5V PS GND	5	GND	N/C	5	N/C	TEENSY PIN 31	5	3	EWMU/CMDS MODE SWITCH - SEMI	TEENSY PIN 18	5	5	MD BUTTON							
TEENSY PIN 12	6	DATA IN	TEENSY PIN 15	6	DATA IN	TEENSY PIN 32	6	16	EWMU/CMDS MODE SWITCH - AUTO	N/C	6	6	N/C							
TEENSY PIN 10	7	CLK	TEENSY PIN 10	7	CLK	TEENSY PIN 27	7	4	EWMU DISP SWITCH - MENU CMDS FL SWITCH - ON/OFF	TEENSY 3V3	7	7	BRIGHTNESS POT (+)							
TEENSY PIN 8	8	BLANKING	TEENSY PIN 17	8	BLANKING	TEENSY PIN 11	8	17	EWMU DISP SWITCH - ON/OFF	TEENSY PIN 16	8	8	BRIGHTNESS POT - WIPER							
5V PS GND	9	CASE GND	5V PS GND	9	CASE GND	TEENSY PIN 26	9	5	EWMU RWR SWITCH - MENU CMDS CH SWITCH - ON/OFF	TEENSY AGND	9	9	BRIGHTNESS POT (-)							
5V PS +	10	CMDS IND LGHT +5V	5V PS +	10	EWPI IND LEDS +5V	TEENSY PIN 8	10	18	EWMU/CMDS RWR SWITCH - ON/OFF	N/C	10	N/C	N/C							
5V PS GND	11	CMDS DISP RDY LAMPS (-)	5V PS GND	11	PRI LED (-)	TEENSY PIN 25	11	6	EWMU JMR SWITCH - MENU CMDS O2 SWITCH - ON/OFF											
5V PS GND	12	CMDS NO GO LAMPS (-)	5V PS GND	12	UNK LED (-)	TEENSY PIN 7	12	19	EWMU/CMDS JMR SWITCH - ON/OFF											
5V PS GND	13	CMDS GO LAMPS (-)	5V PS GND	13	ML LED (-)	TEENSY PIN 24	13	7	EWMU MWS - MENU CMDS O1 SWITCH - ON/OFF											
BL GND	14	BACKLIGHTING GND	BL GND	14	BACKLIGHTING GND	TEENSY PIN 6	14	20	EWMU/CMDS MWS SWITCH - ON/OFF											
BL GND	15	BACKLIGHTING GND	BL +	15	BACKLIGHTING +	TEENSY PIN 0	15	8	EWMU/CMDS JETTISON SWITCH - ON/OFF											
BL +	16	BACKLIGHTING +	TEENSY PIN 1	16	COL1	TEENSY DGND	16	21	TOGGLE SWITCH COMMON											
BL +	17	BACKLIGHTING +	TEENSY PIN 1	17	COL1	TEENSY PIN 36	17	9	EWMU BUTTON MATRIX COL1 CMDS PRGM - 1											
TEENSY PIN 1	18	COL1	TEENSY PIN 2	18	COL2	TEENSY PIN 37	18	22	EWMU BUTTON MATRIX COL2 CMDS PRGM - 2											
TEENSY PIN 1	19	COL1	TEENSY PIN 2	19	COL2	TEENSY PIN 38	19	10	EWMU BUTTON MATRIX COL3 CMDS PRGM - 3											
TEENSY PIN 1	20	COL1	TEENSY PIN 3	20	COL3	TEENSY PIN 39	20	23	EWMU BUTTON MATRIX COL4 CMDS PRGM - 4											
TEENSY PIN 1	21	COL1	TEENSY PIN 3	21	COL3	TEENSY PIN 33	21	11	EWMU BUTTON MATRIX ROW1 CMDS MODE - BYP											
TEENSY PIN 2	22	COL2	TEENSY PIN 4	22	COL4	TEENSY PIN 34	22	24	EWMU BUTTON MATRIX ROW2 CMDS PRGM - BIT											
TEENSY PIN 2	23	COL2	TEENSY PIN 4	23	COL4	TEENSY 3V3	23	12	BRIGHTNESS POT (+)											
TEENSY PIN 2	24	COL2	TEENSY PIN 5	24	COL5	TEENSY PIN 14	24	25	BRIGHTNESS POT - WIPER											
TEENSY PIN 2	25	COL2	TEENSY PIN 5	25	COL5	TEENSY AGND	25	13	BRIGHTNESS POT (-)											
TEENSY PIN 3	26	COL3					N/C	26	N/C											
TEENSY PIN 3	27	COL3																		
TEENSY PIN 3	28	COL3																		
TEENSY PIN 3	29	COL3																		
TEENSY PIN 4	30	COL4																		
TEENSY PIN 4	31	COL4																		
TEENSY PIN 4	32	COL4																		
TEENSY PIN 4	33	COL4																		
TEENSY PIN 5	34	COL5																		
TEENSY PIN 5	35	COL5																		
TEENSY PIN 5	36	COL5								REV: 1.01										
TEENSY PIN 5	37	COL5								Sheet: 1/1										
Date: 2021-05-24										Drawn By: lightning										