DISPLAYS & IND LIGHTS DRIVER CONNECTORS

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

SOURCE	DC37 PIN	FUNCTION
5V PS +	1	+5V
5V PS GND	2	GND
5V PS GND	3	GND
5V PS GND	4	GND
5V PS GND	5	GND
TEENSY PIN 12	6	DATA IN
TEENSY PIN 10	7	CLK
TEENSY PIN 8	8	BLANKING
5V PS GND	9	CASE GND
5V PS +	10	CMDS IND LGHT +5V
5V PS GND	11	CMDS DISP RDY LAMPS (-)
5V PS GND	12	CMDS NO GO LAMPS (-)
5V PS GND	13	CMDS GO LAMPS (-)
BL GND	14	BACKLIGHTING GND
BL GND	15	BACKLIGHTING GND
BL +	16	BACKLIGHTING +
BL +	17	BACKLIGHTING +
TEENSY PIN 1	18	COL1
TEENSY PIN 1	19	COL1
TEENSY PIN 1	20	COL1
TEENSY PIN 1	21	COL1
TEENSY PIN 2	22	COL2
TEENSY PIN 2	23	COL2
TEENSY PIN 2	24	COL2
TEENSY PIN 2	25	COL2
TEENSY PIN 3	26	COL3
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
TEENSY PIN 5	37	COL5

EWPI
DSUB2
DB-25 FEMALE
USE 24 AWG CABLE

SOURCE	DB25 PIN	FUNCTION
5V PS +	1	+5V
5V PS GND	2	GND
5V PS GND	3	GND
N/C	4	N/C
N/C	5	N/C
TEENSY PIN 15	6	DATA IN
TEENSY PIN 10	7	CLK
TEENSY PIN 17	8	BLANKING
5V PS GND	9	CASE GND
5V PS +	10	EWPI IND LEDS +5V
5V PS GND	11	PRI LED (-)
5V PS GND	12	UNK LED (-)
5V PS GND	13	ML LED (-)
BL GND	14	BACKLIGHTING GND
BL +	15	BACKLIGHTING +
TEENSY PIN 1	16	COL1
TEENSY PIN 1	17	COL1
TEENSY PIN 2	18	COL2
TEENSY PIN 2	19	COL2
TEENSY PIN 3	20	COL3
TEENSY PIN 3	21	COL3
TEENSY PIN 4	22	COL4
TEENSY PIN 4	23	COL4
TEENSY PIN 5	24	COL5
TEENSY PIN 5	25	COL5

BUTTONS / SWITCHES / KNOBS CONNECTORS

EWMU / CMDS
CN1 (IDC 2X13 PIN HEADER)
TO DB-25 MALE (STRAIGHT THRU)

SOURCE	IDC 26 PIN	DB 25 PIN	FUNCTION
TEENSY DGND	1	1	ROTARY SWITCH COMMON
TEENSY PIN 28	2	14	EWMU/CMDS MODE SWITCH - OFF
TEENSY PIN 29	3	2	EWMU/CMDS MODE SWITCH - STBY
TEENSY PIN 30	4	15	EWMU/CMDS MODE SWITCH - MAN
TEENSY PIN 31	5	3	EWMU/CMDS MODE SWITCH - SEMI
TEENSY PIN 32	6	16	EWMU/CMDS MODE SWITCH - AUTO
TEENSY PIN 27	7	4	EWMU DISP SWITCH - MENU | CMDS FL SWITCH - ON/OFF
TEENSY PIN 11	8	17	EWMU DISP SWITCH - ON/OFF
TEENSY PIN 26	9	5	EWMU RWR SWITCH - MENU | CMDS CH SWITCH - ON/OFF
TEENSY PIN 8	10	18	EWMU/CMDS RWR SWITCH - ON/OFF
TEENSY PIN 25	11	6	EWMU JMR SWITCH - MENU | CMDS O2 SWITCH - ON/OFF
TEENSY PIN 7	12	19	EWMU/CMDS JMR SWITCH - ON/OFF
TEENSY PIN 24	13	7	EWMU MWS - MENU | CMDS O1 SWITCH - ON/OFF
TEENSY PIN 6	14	20	EWMU/CMDS MWS SWITCH - ON/OFF
TEENSY PIN 0	15	8	EWMU/CMDS JETTISON SWITCH - ON/OFF
TEENSY DGND	16	21	TOGGLE SWITCH COMMON
TEENSY PIN 36	17	9	EWMU BUTTON MATRIX COL1 | CMDS PRGM - 1
TEENSY PIN 37	18	22	EWMU BUTTON MATRIX COL2 | CMDS PRGM - 2
TEENSY PIN 38	19	10	EWMU BUTTON MATRIX COL3 | CMDS PRGM - 3
TEENSY PIN 39	20	23	EWMU BUTTON MATRIX COL4 | CMDS PRGM - 4
TEENSY PIN 33	21	11	EWMU BUTTON MATRIX ROW1 | CMDS MODE - BYP
TEENSY PIN 34	22	24	EWMU BUTTON MATRIX ROW2 | CMDS PRGM - BIT
TEENSY 3V3	23	12	BRIGHTNESS POT (+)
TEENSY PIN 14	24	25	BRIGHTNESS POT - WIPER
TEENSY AGND	25	13	BRIGHTNESS POT (-)
N/C	26	N/C	N/C

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

SOURCE	IDC 10 PIN	DB 9 PIN	FUNCTION
TEENSY DGND	1	1	BUTTON COMMON
TEENSY PIN 19	2	2	PRI BUTTON
TEENSY PIN 21	3	3	SEP BUTTON
TEENSY PIN 20	4	4	UNK BUTTON
TEENSY PIN 18	5	5	MD BUTTON
N/C	6	6	N/C
TEENSY 3V3	7	7	BRIGHTNESS POT (+)
TEENSY PIN 16	8	8	BRIGHTNESS POT - WIPER
TEENSY AGND	9	9	BRIGHTNESS POT (-)
N/C	10	N/C	N/C

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