L1
N
Earth
X11 X11
HVD3-Q5 HVD3-Q5
ABB CIRCUIT BREAKER K-10A
S10
LP3
MAINS ERROR LED
J5
MAINS FILTER
S1
MAINS SWITCH
LP1
MAINS ON LED
RE1
L1' N'
R-4NO
S3
SW PUSHBUTTON
PNOZ8
J6
A1 A2 S21 S12 S22 S52 Y2 Y1 13 33
14 34
EARTH
LP2
SW PUSHBUTTON LED
X1 X1
HVD3-Q5 HVD3-Q5
L1 230V
N
Earth
X2 X2
HVD3-Q5 HVD3-Q5
L1 230V
N
Earth
X8 X8
LEMO 1B3 LEMO 1B3
S100
SW EMO
X9 X9
LEMO 1B3 LEMO 1B3
S200
SW EMO
X10 X10
LEMO 1B3 LEMO 1B3
S300
SW SMOKE
24V 10A
PREMIUM
CON15
J7
24V -->
N'
L1'
15V 7A
KNIEL
J8
15V -->
L1'
N'
12V 5A
KNIEL2
J9
12V -->
L1'
N'
0V
S2
SW-2
RE2
R-4NO
R2
MF 1.1A
X11 X11
AMP AMP
24V uPROC non switched
0V uPROC non switched
X16 X16
AMP AMP
24V LICHTING switched
0V LICHTING switched
X17 X17
AMP AMP
12V LICHTING switched
0V LICHTING switched
X18 X18
AMP AMP
15V TRACK SUPPLY switched
0V TRACK SUPPLY switched
X3 X3
AMP AMP
TRACK SUPPLY RELAY COIL
TRACK SUPPLY RELAY 24V 1.1A max
X15 X15
E E
EARTH connection M5

DRAWN BY: JSIF

Title: MODELTRAIN_MAINS & SAFETY_RACK

Size: A3 | Document Number: PG99 | Rev: 1.0

Date: Saturday, January 14, 2012 | Sheet 1 of 1

FY - INTERCONNECTION PCBs

FY - OPTO_BOARD_2_MISC_PG5

PART OF FY - uC_BOARD

5V_OUT 0V 12V_OUT

FY - PWM_SUPPLY_BOARD_PG1_45 OUTPUT_ENABLE
FY - PWM_SUPPLY_BOARD_PG1_46 M10_TOP
FY - PWM_SUPPLY_BOARD_PG1_47 M11_TOP
FY - PWM_SUPPLY_BOARD_PG1_48 M20_TBOT
FY - PWM_SUPPLY_BOARD_PG1_49 M21_BOT
FY - PWM_SUPPLY_BOARD_PG1_50 OCC_RES_TOP
FY - PWM_SUPPLY_BOARD_PG1_51 OCC_RES_BOT
FY - MMDC_SENS_ACT_BOARD_PG2_52 SPARE_SW_INPUT_TOP
FY - MMDC_SENS_ACT_BOARD_PG2_53 SPARE_SW_INPUT_BOT
FY - OPTO_BOARD_3_OCC_PG7_56 OCC_OUT_6
FY - PWM_SUPPLY_BOARD_PG1_57 ! OCC_OUT_6
FY - OPTO_BOARD_3_OCC_PG7_60 OCC_OUT_17
FY - PWM_SUPPLY_BOARD_PG1_61 ! OCC_OUT_17

X14 SLD X14 SLD X1 ML26 X1 ML26

OUTPUT_ENABLE M10_TOP M11_TOP M20_TBOT M21_BOT OCC_RES_TOP OCC_RES_BOT SPARE_SW_INPUT_TOP SPARE_SW_INPUT_BOT F12 ! F12 OCC_OUT_6 ! OCC_OUT_6 F22 ! F22 OCC_OUT_17 ! OCC_OUT_17

12V 6V

Q35 BC547C 470E 10K 4093 U6A Q29 BC557C
Q30 BC557C U6B
Q33 BC557C U6C
Q34 BC557C U6D
Q32 BC547C 100
Q31 BC547C

OUTPUT_ENABLE EXT_WDT M10_TOP M11_TOP M20_TBOT M21_BOT OCC_RES_TOP OCC_RES_BOT SPARE_SW_INPUT_TOP SPARE_SW_INPUT_BOT

100E 12 PC848 PC849 PC847 270 1K

D93 D96 D94 D95 D97 D100 D98 D99 D89 D92 LED

U7 U8 U9 U10 U11 U12 BS170/TO C9 C10 C11 C12 C13 C14 100nF 4K7 5V6

X13 MEAS3 MEAS2 MEAS1

PORTB PORTD PORTA IOX AMP

RB0 RB1 RB2 RB3 RB4 RB5 RB6 RB7
RD0 RD1 RD2 RD3 RD4 RD5 RD6 RD7
RA2 RA3 RA4 RA5

5V VSS RB0 RB1 RB2 RB3 RB4 RB5 RB6 RB7
5V VSS RD0 RD1 RD2 RD3 RD4 RD5 RD6 RD7
3.3V VSS RA0 RA1 RA2 RA3 RA4 RA5
3.3V VSS 5.0V VSS I^2C_CLCK I^2C_DATA IOX_RESET

ICSP/ICD

5V SUPPLY DCDC
24V IN
3.3V REG
PORT B
PORT D
PORT A
ETHERNET LED
VSS

FY - OPTO_BOARD_4_IOX_PG6_67

F to V Converter RA2 RA3 C1 C2 C3 C4 47K 22nF 1nF 5.0V HCPL-0631 330E C5 C15 100nF

X2 X3 RND

AGILENT HEDS 5540 A02
YELLOW -> 5V
BROWN -> ENC_B
WHITE -> VSS
GREEN -> ENC_A
GRAY -> ENC_I
ENC A / B / I
M10 FiddleYard ENCODER TOP
M10 FiddleYard ENCODER BOT

Title: FY - OPTO_BOARD_2_MISC_PG5
Size: A2
Document Number: PG5
Rev: 1.0
Date: Sunday, April 22, 2012
Sheet 1 of 1

FY - INTERCONNECTION PCBs

5V_OUT
FY - PWM_SUPPLY_BOARD_PG1_01
FY - PWM_SUPPLY_BOARD_PG1_02
12V_SW
FY - OPTO_BOARD_1_SWBOT_PG4_03
FY - OPTO_BOARD_1_SWBOT_PG4_04
FY - OPTO_BOARD_1_SWTOP_PG3_05
FY - OPTO_BOARD_1_SWTOP_PG3_06
5V_SW
FY - OPTO_BOARD_1_SWTOP_PG3_09
FY - OPTO_BOARD_1_SWTOP_PG3_10
FY - OPTO_BOARD_1_SWTOP_PG3_11

Fiddle Yard Motor Controller PCB

5.0V
FY20
FY10
FYcom
24V
BRAKE BOT
PWM BOT
BRAKE TOP
PWM TOP
300E
HCPL-0631
BRAKE TOP
PWM TOP
BRAKE BOT
PWM BOT
5V
1K
PWM
BRAKE
DIR
H-BRIDGE
LMD 18200
H-BRIDGE
LMD 18201
RE7
RE5
JUMPER
SCRW
Part of EOS10
Part of EOS11
Part of EOS20
Part of EOS21
MOT
M10 Fiddleyard translation motor TOP
M20 Fiddleyard translation motor BOT

From Mains &
Safety Rack X11 PG99
24V / 10A
0V
From Mains &
Safety Rack X18 PG99
15V / 8A
0V
MF 1.85A
C300 - 6
C300 - 5
C300 - 4
C300 - 12
RS
24V
0V

Fiddle Yard Supply Board

ENABLE_ALL_OUTPUTS_SIGNAL
MF 0.85A
DCDC CONVERTER
24V IN
12V OUT
5V OUT
DIODE
RE8
R-2NO/C
RE6
12V_OUT
0V
5V_OUT
12V_SW_OUT
16 - 20
21 - 25
26 - 30
1 - 5
6 - 10
11 - 15

150E 0.5W
2.5V REF
LM339
U3A
U3B
U3C
U3D
U4A
U4B
U4C
U4D
24V Out2
24V Out1
15V TR
12V Out
5V Out
12V SW Out
5V SW Out
Spare
1K
4K7
150E

Part Of
Fiddle Yard MMDC
BOARD TOP
Part Of
Fiddle Yard MMDC
BOARD BOTTOM
!F12
!OCC_OUT_6
uProc M11
uProc M11
BRIDGE_10L_B
BRIDGE_10R_B
BM10_M
uProc M10
M10
M11
!F21
!OCC_OUT_17
uProc M21
uProc M21
BRIDGE_20L_B
BRIDGE_20R_B
BM20_M
uProc M20
M20
M21
12V_SW
FY - MMDC_SENS_ACT_BOARD_PG2_39
FY - MMDC_SENS_ACT_BOARD_PG2_40
FY - MMDC_SENS_ACT_BOARD_PG2_41
FY - OPTO_BOARD_2_MISC_PG5_46
FY - MMDC_SENS_ACT_BOARD_PG2_62
FY - MMDC_SENS_ACT_BOARD_PG2_63
FY - OPTO_BOARD_2_MISC_PG5_45
FY - MMDC_SENS_ACT_BOARD_PG2_64
FY - PWM_SUPPLY_BOARD_PG1_02
FY - MMDC_SENS_ACT_BOARD_PG2_07
FY - MMDC_SENS_ACT_BOARD_PG2_65
FY - OPTO_BOARD_2_MISC_PG5_50
FY - OPTO_BOARD_2_MISC_PG5_51
FY - OPTO_BOARD_2_MISC_PG5_55
FY - OPTO_BOARD_2_MISC_PG5_57
FY - OPTO_BOARD_2_MISC_PG5_47
FY - OPTO_BOARD_2_MISC_PG5_58
FY - OPTO_BOARD_2_MISC_PG5_61
FY - OPTO_BOARD_2_MISC_PG5_49
FY - MMDC_SENS_ACT_BOARD_PG2_42
FY - MMDC_SENS_ACT_BOARD_PG2_43
FY - MMDC_SENS_ACT_BOARD_PG2_44
FY - OPTO_BOARD_2_MISC_PG5_48
FY - PWM_SUPPLY_BOARD_PG1_01
FY - MMDC_SENS_ACT_BOARD_PG2_08
FY - OPTO_BOARD_4_IOX_PG6_66

24V Out2 Meas
24V Out1 Meas
5V Out Sw Meas
12V Out SW Meas
12V Out Meas
Spare Meas In_R
5V Out Meas
15V TR Meas
Spare Meas
OCC_RES_TOP
Spare Meas In
OCC_RES_TOP_R
Output enable
OCC_RES_BOT
OCC_RES_TOP_EN
OCC_RES_BOT_R
OCC_RES_BOT_EN
Spare IO
OCC_RES_BOT
OCC_RES_TOP
ENABLE_ALL_OUTPUTS_SIGNAL
Spare Meas In
OCC_RES_TOP
OCC_RES_TOP_R
OCC_RES_BOT
OCC_RES_BOT_R
RE9
RE10
R-2NO/C
150E 0.5W

Title	FY - PWM_SUPPLY_BOARD_PG1		
Size A2	Document Number PG1		Rev 1.0
Date: Monday, April 16, 2012	Sheet 1 of 1		

12V_OUT
5V_OUT
0V
FY - INTERCONNECTION PCBs

FY - OPTO_BOARD_3_OCC_PG7_71
FY - OPTO_BOARD_3_OCC_PG7_72

X23
X23

FY - OPTO_BOARD_1_SWTOP_PG3_11
FY - OPTO_BOARD_2_MISC_PG5_52
FY - OPTO_BOARD_1_SWTOP_PG3_13

Part Of
Fiddle Yard MMDC
BOARD TOP

Vout+
S/R
Vout 0V
Vin+
Vin 0V
BRIDGE_10L
BM_10
BM_11
BRIDGE_10R
SPARE
SPARE

Part Of
Fiddle Yard MMDC
BOARD BOTTOM

BRIDGE_20L
BM_20
BM_21
BRIDGE_20R
SPARE
SPARE

FY - OPTO_BOARD_1_SWBOT_PG4_29
FY - OPTO_BOARD_1_SWBOT_PG4_28
FY - OPTO_BOARD_1_SWBOT_PG4_27
FY - OPTO_BOARD_2_MISC_PG5_53
FY - OPTO_BOARD_1_SWBOT_PG4_25

X22
X22

FY - OPTO_BOARD_3_OCC_PG7_72
FY - OPTO_BOARD_3_OCC_PG7_73

M11

FY - PWM_SUPPLY_BOARD_PG1_41
FY - OPTO_BOARD_1_SWTOP_PG3_16
FY - PWM_SUPPLY_BOARD_PG1_07
FY - OPTO_BOARD_1_SWTOP_PG3_17
FY - OPTO_BOARD_1_SWTOP_PG3_18
FY - PWM_SUPPLY_BOARD_PG1_08

M21

FY - PWM_SUPPLY_BOARD_PG1_44
FY - OPTO_BOARD_1_SWBOT_PG4_30
FY - OPTO_BOARD_1_SWBOT_PG4_31
FY - OPTO_BOARD_1_SWBOT_PG4_32

FY - PWM_SUPPLY_BOARD_PG1_55
FY - OPTO_BOARD_1_SWTOP_PG3_19
FY - OPTO_BOARD_1_SWBOT_PG3_33
FY - OPTO_BOARD_1_SWTOP_PG3_14
FY - PWM_SUPPLY_BOARD_PG1_59
FY - OPTO_BOARD_1_SWTOP_PG3_15

FY - OPTO_BOARD_1_SWTOP_PG3_12
FY - OPTO_BOARD_1_SWBOT_PG4_26

TC - TRACK_OUTPUT_BOARD_PG1_17
TC - TRACK_OUTPUT_BOARD_PG1_18
FY - PWM_SUPPLY_BOARD_PG1_39
FY - PWM_SUPPLY_BOARD_PG1_62
FY - PWM_SUPPLY_BOARD_PG1_63
TC - TRACK_OUTPUT_BOARD_PG1_19
TC - TRACK_OUTPUT_BOARD_PG1_20
FY - PWM_SUPPLY_BOARD_PG1_40

TC - TRACK_OUTPUT_BOARD_PG1_21
TC - TRACK_OUTPUT_BOARD_PG1_22
FY - PWM_SUPPLY_BOARD_PG1_42
FY - PWM_SUPPLY_BOARD_PG1_64
FY - PWM_SUPPLY_BOARD_PG1_65
TC - TRACK_OUTPUT_BOARD_PG1_23
TC - TRACK_OUTPUT_BOARD_PG1_24
FY - PWM_SUPPLY_BOARD_PG1_43

FY - OPTO_BOARD_1_SWTOP_PG3_23
FY - OPTO_BOARD_1_SWTOP_PG3_22
FY - OPTO_BOARD_1_SWTOP_PG3_21
FY - OPTO_BOARD_1_SWTOP_PG3_20
FY - OPTO_BOARD_1_SWTOP_PG3_24
100E 1W

FY - OPTO_BOARD_1_SWBOT_PG4_37
FY - OPTO_BOARD_1_SWBOT_PG4_36
FY - OPTO_BOARD_1_SWBOT_PG4_35
FY - OPTO_BOARD_1_SWBOT_PG4_34
FY - OPTO_BOARD_1_SWBOT_PG4_38
100E 1W

K10
K11
K20
K21
K32
K30
CL10
CL20

Bridge 10L
Bridge 10R
Bridge 20L
Bridge 20R

F12 +12V 0V Photo /Logic NPN Q
F22 +12V 0V Photo /Logic NPN Q
F10 +12V 0V Photo /Logic PNP Q
F20 +12V 0V Photo /Logic PNP Q

SW
SPARE
SPARE
- TR
+TR

FY_TOP_CL_10
FY_BOT_CL_20
B1
B2
B3
B4
HB

M11 FiddleYard
Bridge motor TOP
MOT
BM10 SW
BM11 SW
EOS10
EOS11
F11 +12V 0V Photo /Logic NPN Q

M21 FiddleYard
Bridge motor TOP
MOT
BM20 SW
BM21 SW
EOS20
EOS21
F21 +12V 0V Photo /Logic NPN Q

Title	FY - MMDC_SENS_ACT_BOARD_PG2
Size A2	Document Number PG2
Rev	1.0
Date:	Sunday, April 22, 2012
Sheet	1 of 1

FY - OPTO_BOARD_1_SWTOP_PG3

12V_OUT 5V_OUT

0V

FY - INTERCONNECTION PCBs

X12 SLD

FY - MMDC_SENS_ACT_BOARD_PG2_13
FY - MMDC_SENS_ACT_BOARD_PG2_11
FY - MMDC_SENS_ACT_BOARD_PG2_12
FY - MMDC_SENS_ACT_BOARD_PG2_16
FY - MMDC_SENS_ACT_BOARD_PG2_19
FY - MMDC_SENS_ACT_BOARD_PG2_17
FY - PWM_SUPPLY_BOARD_PG1_06
FY - PWM_SUPPLY_BOARD_PG1_05
FY - MMDC_SENS_ACT_BOARD_PG2_20
FY - MMDC_SENS_ACT_BOARD_PG2_21
FY - MMDC_SENS_ACT_BOARD_PG2_22
FY - MMDC_SENS_ACT_BOARD_PG2_23
FY - MMDC_SENS_ACT_BOARD_PG2_24
FY - MMDC_SENS_ACT_BOARD_PG2_14
FY - MMDC_SENS_ACT_BOARD_PG2_15
FY - MMDC_SENS_ACT_BOARD_PG2_18

X1 D25

12V
0V
N.A.
Bridge_10L
N.A.
Bridge_10R
F10
F11
F12
EOS_10
CL_10_B4
CL_10_B3
CL_10_B2
CL_10_B1
CL_10_H
BM_10
BM_11
EOS_11

390E
D85 LED
5V
0V
PWM
BRAKE
100E
0.1uF C6 CAP
HCPL-0631
220E
0E
4x NOT PLACED
CONFIG SWAP PWM-BRAKE
FOR PORTG OR PORTC
OR NORMAL OPTO INPUT

PC847
1K
0E

D29 LED
D28 LED
D30 LED
D31 LED
D32 LED
D35 LED
D33 LED
D34 LED
D36 LED
D39 LED
D37 LED
D38 LED
D40 LED
D43 LED
D41 LED
D42 LED

PORTG PORTJ AMP

5V
VSS
RG0
RG1
RG2
RG3
RG4
RG5
RG6
RG7
RC0
RC1
RC2
RC3
RC4
RC5
RC6
RC7

PART OF FY - uC_BOARD

5V SUPPLY DCDC
24V IN

PORT G

X1 - 10
X1 - 11
X1 - 3

FY - PWM_SUPPLY_BOARD_PG1_09
FY - PWM_SUPPLY_BOARD_PG1_10
FY - PWM_SUPPLY_BOARD_PG1_11

PORTJ

RJ0
RJ1
RJ2
RJ3
RJ4
RJ5
RJ6
RJ7

Title	FY - OPTO_BOARD_1_SWTOP_PG3	
Size A2	Document Number PG3	Rev 1.0
Date: Saturday, April 14, 2012	Sheet 1 of 1	

FY - OPTO_BOARD_1_SWBOT_PG4

12V_OUT 5V_OUT 0V

FY - INTERCONNECTION PCBs

FY - MMDC_SENS_ACT_BOARD_PG2_27
FY - MMDC_SENS_ACT_BOARD_PG2_25
FY - MMDC_SENS_ACT_BOARD_PG2_26
FY - MMDC_SENS_ACT_BOARD_PG2_30
FY - MMDC_SENS_ACT_BOARD_PG2_33
FY - MMDC_SENS_ACT_BOARD_PG2_31
FY - PWM_SUPPLY_BOARD_PG1_04
FY - PWM_SUPPLY_BOARD_PG1_03
FY - MMDC_SENS_ACT_BOARD_PG2_34
FY - MMDC_SENS_ACT_BOARD_PG2_35
FY - MMDC_SENS_ACT_BOARD_PG2_36
FY - MMDC_SENS_ACT_BOARD_PG2_37
FY - MMDC_SENS_ACT_BOARD_PG2_38
FY - MMDC_SENS_ACT_BOARD_PG2_28
FY - MMDC_SENS_ACT_BOARD_PG2_29
FY - MMDC_SENS_ACT_BOARD_PG2_32

X11 X11 D25 D25

X1 X1 D25 D25

12V
0V
N.A.
Bridge_20L
N.A.
Bridge_20R
F20
F21
F22
EOS_20
CL_20_B4
CL_20_B3
CL_20_B2
CL_20_B1
CL_20_H
BM_20
BM_21
EOS_21

390E D86 LED

5V
0V
PWM
BRAKE

100E 100E

0.1uF C7 CAP

HCPL-0631

220E 0E 220E 0E

4x NOT PLACED
CONFIG SWAP PWM-BRAKE
FOR PORTG OR PORTC
OR NORMAL OPTO INPUT

PC847 PC847 PC847 PC847

1K

D44 LED D55 LED D53 LED D54 LED
D45 LED D48 LED D46 LED D47 LED
D49 LED D52 LED D50 LED D51 LED
D56 LED D59 LED D57 LED D58 LED

PORTC PORTC AMP AMP

5V VSS RC0 RC1 RC2 RC3 RC4 RC5 RC6 RC7

PART OF FY - uC_BOARD

5V SUPPLY DCDC
24V IN

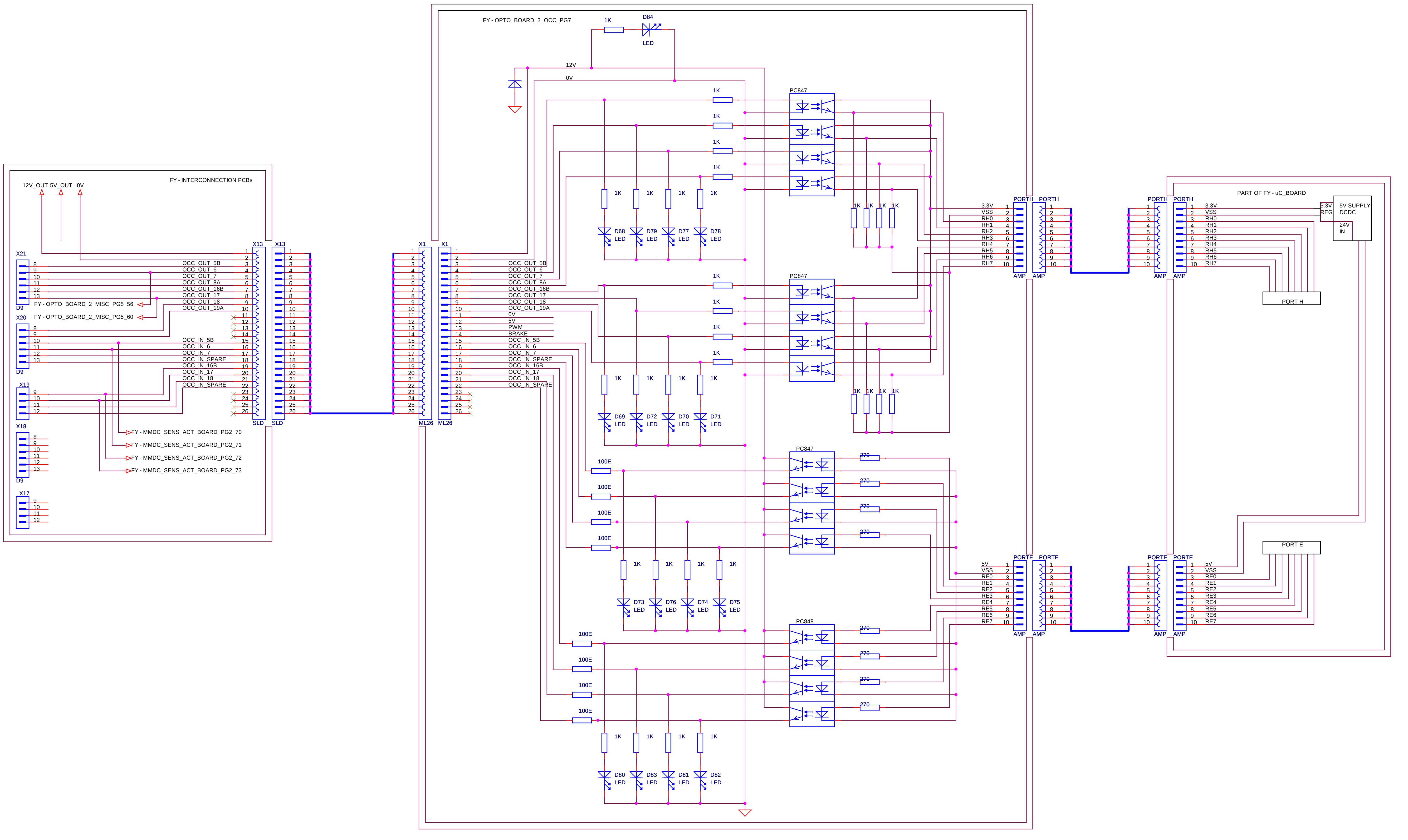
PORT C

PORTF PORTF AMP AMP

3.3V VSS RF0 RF1 RF2 RF3 RF4 RF5 RF6 RF7

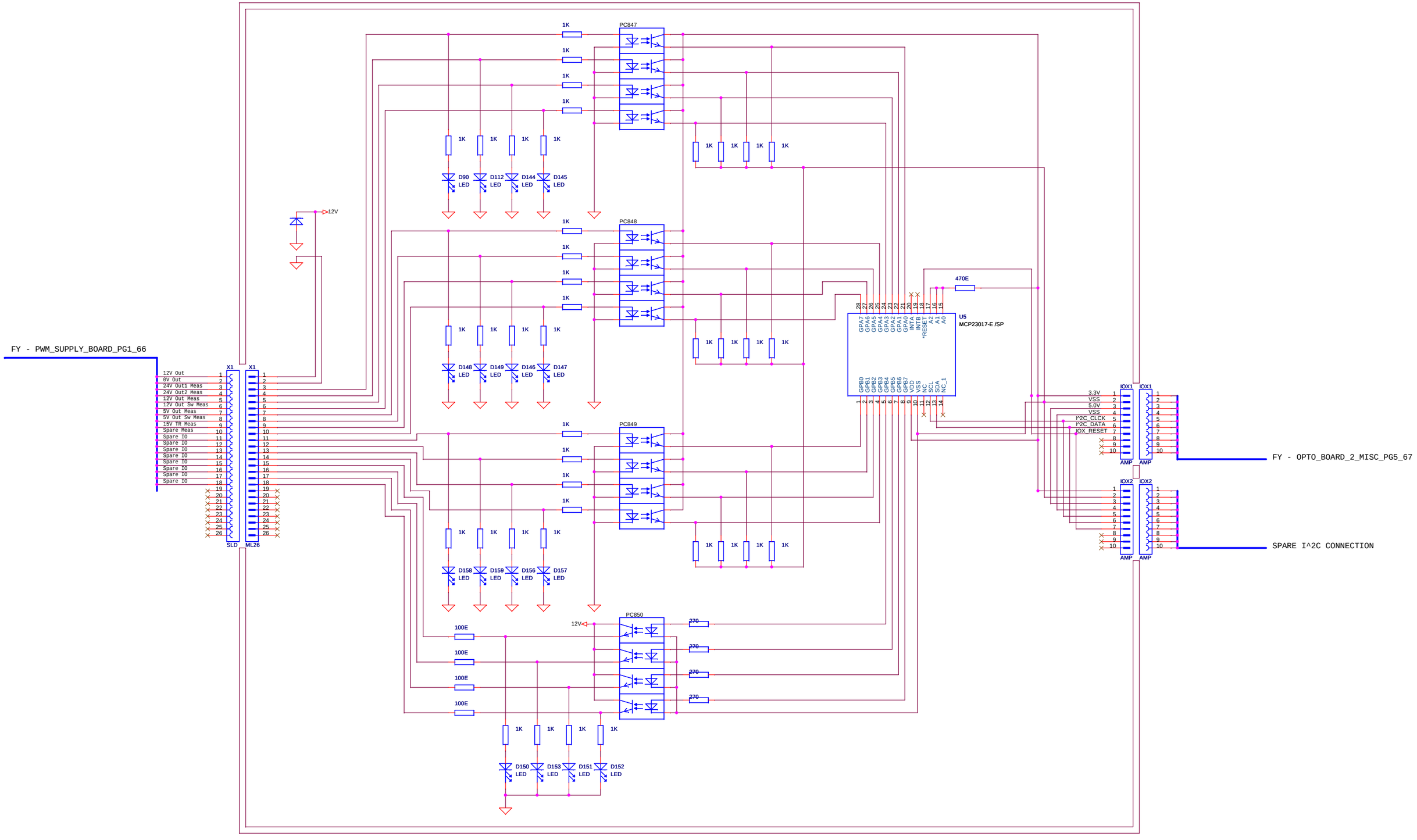
PORTF

Title	FY - OPTO_BOARD_1_SWBOT_PG4		
Size A2	Document Number PG4		Rev 1.0
Date: Saturday, April 14, 2012		Sheet 1 of 1	


FY - OPTO_BOARD_3_OCC_PG7
FY - INTERCONNECTION PCBs
12V_OUT 5V_OUT 0V
X21
X20
X19
X18
X17
X13
X1
D9
SLD
ML26
OCC_OUT_5B
OCC_OUT_6
OCC_OUT_7
OCC_OUT_8A
OCC_OUT_16B
OCC_OUT_17
OCC_OUT_18
OCC_OUT_19A
OCC_IN_5B
OCC_IN_6
OCC_IN_7
OCC_IN_SPARE
OCC_IN_16B
OCC_IN_17
OCC_IN_18
0V
5V
PWM
BRAKE
FY - OPTO_BOARD_2_MISC_PG5_56
FY - OPTO_BOARD_2_MISC_PG5_60
FY - MMDC_SENS_ACT_BOARD_PG2_70
FY - MMDC_SENS_ACT_BOARD_PG2_71
FY - MMDC_SENS_ACT_BOARD_PG2_72
FY - MMDC_SENS_ACT_BOARD_PG2_73
12V
D84
LED
1K
100E
270
PC847
PC848
D68 D79 D77 D78
D69 D72 D70 D71
D73 D76 D74 D75
D80 D83 D81 D82
PORTH
PORTE
AMP
3.3V
VSS
RH0
RH1
RH2
RH3
RH4
RH5
RH6
RH7
5V
RE0
RE1
RE2
RE3
RE4
RE5
RE6
RE7
PART OF FY - uC_BOARD
3.3V REG
5V SUPPLY DCDC
24V IN
PORT H
PORT E

Title: FY - OPTO_BOARD_3_OCC_PG7

Size A2	Document Number PG7	Rev 1.0
Date: Sunday, April 22, 2012	Sheet 1 of 1	



Title	FY - OPTO_BOARD_4_IOX_PG6	
Size A2	Document Number PG6	Rev 1.0
Date: Thursday, February 23, 2012	Sheet 1 of 1	

FY - OPTO_BOARD_2_MISC_PG5

OPTO_BOARD_2_PG1
PORTBbits.RA0 = ETHERNET LED1
PORTBbits.RA1 = ETHERNET LED2
PORTBbits.RA2 = ADCONVERTER ENC TOP
PORTBbits.RA3 = ADCONVERTER ENC BOTTOM
PORTBbits.RA4 = Led1
PORTBbits.RA5 = Led2
3.3V, 2mA

PORTBbits.RB0 = SPARE_SWITCH_INPUT_TOP
PORTBbits.RB1 = SPARE_SWITCH_INPUT_BOTTOM
PORTBbits.RB2 = Led3
PORTBbits.RB3 = IO_Expander_Enable I^2C
PORTBbits.RB4 = Output_Enable
PORTBbits.RB5 = Externall_WDT
PORTBbits.RB6 = INCIRCUIT PROGRAM/DEBUG
PORTBbits.RB7 = INCIRCUIT PROGRAM/DEBUG
5.0V, 25mA

PORTDbits.RD0 = M10_ Top
PORTDbits.RD1 = M11_ Top
PORTDbits.RD2 = Bezet_Weerstand_ Top
PORTDbits.RD3 = M10_ Bottom
PORTDbits.RD4 = M11_ Bottom
PORTDbits.RD5 = SERIAL CLOCK I^2C
PORTDbits.RD6 = SERIAL DATA I^2C
PORTDbits.RD7 = Bezet_Weerstand_ Bottom
5.0V, 8mA

FY - OPTO_BOARD_1_SWBOT_PG4

OPTO_BOARD_1_BOT_PG1
PORTCbits.RC0 = Brake Bottom
PORTCbits.RC1 = Bridge_10L_ Bottom
PORTCbits.RC2 = PWM Bottom
PORTCbits.RC3 = Bridge_10R_ Bottom
PORTCbits.RC4 = F10_ Bottom
PORTCbits.RC5 = F11_ Bottom
PORTCbits.RC6 = F12_ Bottom
PORTCbits.RC7 = EOS_10_ Bottom
5.0V, 25mA

PORTFbits.RF0 = CL_10_ bit1 Bottom
PORTFbits.RF1 = CL_10_ bit2 Bottom
PORTFbits.RF2 = CL_10_ bit3 Bottom
PORTFbits.RF3 = CL_10_ bit4 Bottom
PORTFbits.RF4 = CL_10_Heart_ Bottom
PORTFbits.RF5 = BM_10_ Bottom
PORTFbits.RF6 = BM_11_ Bottom
PORTFbits.RF7 = EOS_11_ Bottom
3.3V, 2mA

FY - OPTO_BOARD_1_SWTOP_PG3

OPTO_BOARD_1_TOP_PG1
PORTGbits.RG0 = PWM Top
PORTGbits.RG1 = Bridge_10L_ Top
PORTGbits.RG2 = Brake Top
PORTGbits.RG3 = Bridge_10R_ Top
PORTGbits.RG4 = F10_ Top
PORTGbits.RG5 = F11_ Top
PORTGbits.RG6 = F12_ Top
PORTGbits.RG7 = EOS_10_ Top
5.0V, 2mA

PORTJbits.RJ0 = CL_10_ bit1 Top
PORTJbits.RJ1 = CL_10_ bit2 Top
PORTJbits.RJ2 = CL_10_ bit3 Top
PORTJbits.RJ3 = CL_10_ bit4 Top
PORTJbits.RJ4 = CL_10_Heart_ Top
PORTJbits.RJ5 = BM_10_ Top
PORTJbits.RJ6 = BM_11_ Top
PORTJbits.RJ7 = EOS_11_ Top
5.0V, 8mA

FY - OPTO_BOARD_3_OCC_PG7

OPTO_BOARD_3_PG1
PORTEbits.RE0 = OCC_IN_5B
PORTEbits.RE1 = OCC_IN_6
PORTEbits.RE2 = OCC_IN_7
PORTEbits.RE3 = OCC_IN_SPARE
PORTEbits.RE4 = OCC_IN_16B
PORTEbits.RE5 = OCC_IN_17
PORTEbits.RE6 = OCC_IN_18
PORTEbits.RE7 = OCC_IN_SPARE
5.0V, 8mA

PORTHbits.RH0 = OCC_OUT_5B
PORTHbits.RH1 = OCC_OUT_6
PORTHbits.RH2 = OCC_OUT_7
PORTHbits.RH3 = OCC_OUT_8A
PORTHbits.RH4 = OCC_OUT_16B
PORTHbits.RH5 = OCC_OUT_17
PORTHbits.RH6 = OCC_OUT_18
PORTHbits.RH7 = OCC_OUT_19A
3.3V, 2mA

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