



ICC BOARD CONNECTOR CONNECTIONS

REV3.0
5.7.10

T.MOORE

(TYPE 2 CRATE WILL REQUIRE FLIPPING THE ICC BOARD OVER AND MAKING DIFFERENT LENGTH CABLES,
BUT THE CONNECTIONS TO THE CONNECTORS REMAIN THE SAME)

CONNECTOR P103: ICC BOARD DC POWER CONNECTOR

CABLE: HAND TWISTED, 22 AWG WIRE
TWIST EACH SIGNAL & IT'S RETURN TOGETHER

ICC BOARD
CONNECTOR: LF SERIES 4 PIN CIRCULAR RECEPTACLE WITH MALE PINS
HIROSE P/N: LF10WBR-4P

SIGNAL	WIRE COLOR	P103 PIN #	DC POWER RECEPTACLE PIN #
+12VDC	RED	1	1
+12VDC RTN	BLACK	2	2
-12VDC RTN	GREEN	3	3
-12VDC	GREY	4	4

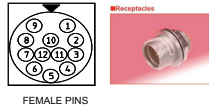


CONNECTOR P110: COOLING FAN #1-#4 RPM SIGNAL CONNECTOR

CABLE: HAND TWISTED 28 AWG WIRES
TWIST EACH SIGNAL & IT'S RETURN TOGETHER

ICC BOARD
CONNECTOR: LF SERIES 12 PIN CIRCULAR RECEPTACLE WITH FEMALE PINS
HIROSE P/N: LF10WBR-12S

SIGNAL	WIRE COLOR	P110 PIN #	COOLING FAN #1-#4 RECEPTACLE PIN #
FAN #1 SIGNAL	BLUE	PIN 3	1
FAN #1 RTN	BLACK	PIN 4	2
FAN #2 SIGNAL	GREEN	PIN 5	3
FAN #2 RTN	BLACK	PIN 6	4
FAN #3 SIGNAL	BROWN	PIN 7	5
FAN #3 RTN	BLACK	PIN 8	6
FAN #4 SIGNAL	WHITE	PIN 9	7
FAN #4 RTN	BLACK	PIN 10	8
FAN #1-4 CNTRL	YELLOW	PIN 1	9
FAN #1-4 CNTRL RTN	BLACK	PIN 2	10

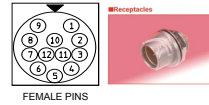


CONNECTOR P111 COOLING FAN #5-#8 RPM SIGNAL CONNECTOR

CABLE: HAND TWISTED 28 AWG WIRES
TWIST EACH SIGNAL & IT'S RETURN TOGETHER

ICC BOARD
CONNECTOR: LF SERIES 12 PIN CIRCULAR RECEPTACLE WITH FEMALE PINS
HIROSE P/N: LF10WBR-12S

SIGNAL	WIRE COLOR	P111 PIN #	COOLING FAN #5-#8 RECEPTACLE PIN #
FAN #5 SIGNAL	BLUE	PIN 3	1
FAN #5 RTN	BLACK	PIN 4	2
FAN #6 SIGNAL	GREEN	PIN 5	3
FAN #6 RTN	BLACK	PIN 6	4
FAN #7 SIGNAL	BROWN	PIN 7	5
FAN #7 RTN	BLACK	PIN 8	6
FAN #8 SIGNAL	WHITE	PIN 9	7
FAN #8 RTN	BLACK	PIN 10	8
FAN #5-8 CNTRL	YELLOW	PIN 1	9
FAN #5-8 CNTRL RTN	BLACK	PIN 2	10





CONNECTOR P105: ICS CRATE MONITOR CONNECTOR

CABLE: HAND TWISTED 28 AWG WIRES
TWIST EACH SIGNAL & IT'S RETURN TOGETHER

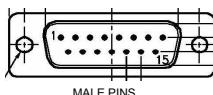
ICC BOARD CONNECTOR: D-SUB 15 PIN METAL PLUG WITH MALE PINS, SOLDERCUP
SPC PIN: SPC15323

SIGNAL	WIRE COLOR	P105 PIN #	ICS CRATE MONITOR PLUG PIN #
Ok_Pwr Up In	RED	1	1
Ok_Pwr Up Rtn	BLACK	2	2
DHE Sys OK out	ORANGE	3	3
DHE Sys OK Rtn	BLACK	4	4
ICC SDO	YELLOW	5	5
ICC SDO Rtn	BLACK	6	6
ICC SDI	BLUE	7	7
ICC SDI Rtn	BLACK	8	8
* SPI_CS	BROWN	9	9
* SPI_CS Rtn	BLACK	10	10
SCLK IN Rtn	BLACK	11	11
SCLK IN	GREEN	12	12
Ok_Pwr_Up_Rtn_ECO	BLACK	13	13
Ok_Pwr_Up_ECO	VIOLET	14	14

ICS EMULATOR PLUG ASSEMBLY

1. USE DB-15 PLUG, FEMALE PINS, SPC P/N: 15299
2. CONNECT PIN 1 & PIN 12 TO PIN 14
3. CONNECT PIN 2 & PIN 11 TO PIN 13

* SPI_CS was not used on prototype version. External cable is different on proto version.



MALE PINS

CONNECTOR P109: VICOR FAN RPM CONNECTOR

CABLE: HAND TWISTED 28 AWG WIRES
TWIST ANODE/CATHODE TOGETHER, TWIST COLLECTOR/EMITTER TOGETHER

ICC BOARD CONNECTOR: LF SERIES 4 PIN CIRCULAR RECEPTACLE WITH FEMALE PINS
HIROSE P/N: LF10WBR-4S

SIGNAL	WIRE COLOR	P109 PIN #	VICOR FAN RECEPTACLE PIN #
Anode	RED	1	1
Cathode	BLACK	2	2
Collector	BLACK	3	3
Emitter	GREEN	4	4



FEMALE PINS



CONNECTOR P102: VICOR ENABLES/DISABLES CONNECTOR

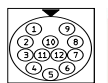
CABLE: 28 AWG WIRES

ICC BOARD CONNECTOR: LF SERIES 12 PIN CIRCULAR RECEPTACLE WITH MALE PINS
HIROSE P/N: LF10WBR-12P

SIGNAL	WIRE COLOR	P102 PIN #	ENBL/DSBL RECEPTACLE PIN #	P/G CIRCULAR RECEPTACLE PIN #	
Slot1	GREEN	1	1		Both are attached to Vcc to force digital voltages to come up.
Slot2	BROWN	1	2		
Slot3	ORANGE	3	3		Attached to analog PG (thru relay) to wait 600ms, then have vsusb voltage come up.
Slot4	BLACK	-	4	3	All are attached to digital PG to allow analog voltages to come up
Slot5	YELLOW	-	5	3	
Slot6	BLACK	-	6	3	
Slot7	BLUE	-	7	3	
Slot8	BLACK	-	8	3	
Vcc-In	RED	9	9		
Rtn	BLACK	10	10		
A/C Power OK	BLUE	12	11		See Eco to add series diode to wire.
Gen Shtdwn	WHITE	*	12		Gen Shtdwn wire now goes to adapter board pin 1.



MALE PINS



MALE PINS





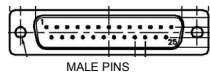
**CONNECTOR P119: VICOR THERMAL SWITCH
AND
CONNECTOR P101: VICOR MONITORED VOLTAGES CONNECTOR**

CABLE: HAND TWISTED 28 AWG WIRES
TWIST EACH SIGNAL & IT'S RETURN TOGETHER

ICC BOARD CONNECTOR: D-SUB 25 PIN METAL PLUG WITH MALE PINS, SOLDERCUP
SPC P/N: SPC15323

ICC SIGNAL (FILTERBOX SIGNAL)	WIRE COLOR	P119 PIN #	P101 PIN #	MON. VOLT/THERM. SW. PLUG PIN #
+5vd (P5VDmon)	RED		1	1
+5vdRtn (P5VDRmon)	BLACK		2	14
+3.3vd (P3_3VDmon)	WHITE		3	2
+3.3vdRtn (P3j3VDRmon)	BLACK		4	15
+5va (P5VAmon/n_SHUTDOWN)	GREEN		5	3
+5vaRtn (P5VARmon/n_SHUTDOWN)	BLACK		6	16
-5vaRtn (M5VARmon)	BLUE		7	4
-5va (M5VAmon)	BLACK		8	17
+15va (P15VAmon)	YELLOW		9	5
+15vaRtn (P15VARmon)	BLACK		10	6
-15va (M15VAmon)	BROWN		11	19
-15vaRtn (M15VARmon)	BLACK		12	20
-28va (M28VAmon)	ORANGE		13	10
-28vaRtn (M2815VRmon)	BLACK		14	23
+48va (P48VAmon)	WHITE		15	21
+48vaRtn (P4815VRmon)	RED		16	9
Vicor_Thermal_Sw	BLUE	1		25
Vicor_Thermal_Sw_Rtn	GREEN	2		13

Note: External cable & ICC board connector is different on proto version.



CONNECTOR P118: DHE AIR (ICC) THERMAL SWITCH

CABLE: 28 AWG WIRES
CONNECTORS: STANDARD BARREL CRIMP TERMINAL, FEMALE, RED, OR YELLOW, FOR #28 AWG WIRE
THERMAL SWITCH: 40 DEGREE CELCIUS, N.O. THERMAL SWITCH, FASTON
HIROSE P/N: LF10WBR-12P

SIGNAL	WIRE COLOR	P118 PIN #	MOUNTED THERM SW. PIN #
ICC_Therm_Sw	BLUE	1	1
ICC_Therm_Sw_Rtn	GREEN	2	2

CONNECTOR P104: VICOR POWER GOOD CONNECTOR

CABLE: 28 AWG WIRES
ICC BOARD CONNECTOR: LF SERIES 12 PIN CIRCULAR RECEPTACLE WITH MALE PINS
HIROSE P/N: LF10WBR-12P

SIGNAL	WIRE COLOR	P104 PIN #	POWER GOOD RECEPTACLE PIN #	E/D CIRCULAR RECEPTACLE PIN #	
PG VCC (was Slot1 Vcc)	ORANGE	1	1		Connect to Slot1 - Slot8 PG Vcc on Vicor P.S.
Digital PG (was ICC Slot2 PG)	GREEN	-	3	4-8	Connect wire to E_D-Slot4, E_D-Slot5, E_D-Slot6, E_D-Slot7, & E_D-Slot8 on Vicor P.S.
Analog PG (now ICC Slot2 PG)	BLUE	3	4		Connect to E D Slot3 (+48v) on Vicor P.S.
PG Rtn (was Slot2 Rtn)	BROWN	6	6		Connect to Slot1-Slot8 PG Rtn on Vicor P.S.

