

EPC Connect specification sheet

14.01.2016.

Typhoon HIL contact person

Edwin Fonkwe

Customer contact person

(NAME)

	HIL CONNECT ANALOG OUTPUTS							
СН	Rating	Power	Connector Type	Connector	Signal	Signal description	Comments	
AO1								
AO2								
AO3								
A04								
AO5								
A06								
A07								
AO8								
AO9								
AO10								
AO11								
AO12								
AO13								
AO14								
AO15								
AO16								



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				HIL CONNE	CT ANALOG INPUTS			
HIL ANA out	Rating	Input impedance	Connector Type	Connector	Signal (Oztek ANA in)	Signal description (EPC description)	Comments	HIL sca
A01	+/- 10V		Molex Flat ribbon (AMP) 1658621-6	J11 and J13	J11 Pin 13 and J13 pin 13	INV_UDC		
AO2	+/- 10V		Molex Flat ribbon (AMP) 1658621-7	J11	J11 Pin 22 and J11 pin 24	EPC Phase C1 current and EPC Phase C2 current		
AO3	+/- 10V		Molex Flat ribbon (AMP) 1658621-8	J11 and J13	J11 Pin 26 and J13 pin 22	EPC Phase B1 current and EPC Phase B2 current		
A04	+/- 10V		Molex Flat ribbon (AMP) 1658621-9	J13	J13 Pin 24 and J13 Pin 26	EPC Phase A1 current and EPC Phase A2 current		
AGND	+/- 10V	(N	Nolex) Micro-Fit 2 Position Receptacle: 43645-0	J4, J5, J6	J4 pin 1, J5 pin 1, J6 pin 1	Aux Temp B, Aux Temp A, and Aux Temp C	E GROUND THIS UNITL WE FIGURE OUT OPAMI	ISSUES
A06	+/- 10V		Clip cable	J23	Pin 1	Line voltage phase A	en, we need your opinion on this particular cor	nector
A07	+/- 10V		Clip cable	J23	Pin 4	Line voltage phase B	en, we need your opinion on this particular cor	nector
AO8	+/- 10V		Clip cable	J23	Pin 7	Line voltage phase C	en, we need your opinion on this particular cor	nector
AO9	+/- 10V		(Molex) Micro-Fit 6 Receptacle: 43645-0600	J20	Pin 2	Remote sense Phase A		
AO10	+/- 10V		(Molex) Micro-Fit 6 Receptacle: 43645-0600	J20	Pin 3	Remote sense Phase B		
AO11	+/- 10V		(Molex) Micro-Fit 6 Receptacle: 43645-0600	J20	Pin 4	Remote sense Phase C		
AO12	+/- 10V		Molex Flat ribbon (AMP) 1658621-6	J11 and J13	J11 Pin 13 and J13 pin 13	INV_UDC		
AO13	+/- 10V		Molex Flat ribbon (AMP) 1658621-6	J11	J11 Pin 22 and J11 pin 24	EPC Phase C1 current and EPC Phase C2 current		
AO14	+/- 10V		Molex Flat ribbon (AMP) 1658621-6	J11 and J13	J11 Pin 26 and J13 pin 22	EPC Phase B1 current and EPC Phase B2 current		
AO15	+/- 10V		Molex Flat ribbon (AMP) 1658621-6	J13	J13 Pin 24 and J13 Pin 26	EPC Phase A1 current and EPC Phase A2 current		
AGND	+/- 10V	(N	Nolex) Micro-Fit 2 Position Receptacle: 43645-0	J4, J5, J6	J4 pin 1, J5 pin 1, J6 pin 1	Aux Temp B, Aux Temp A, and Aux Temp C		
AO17	+/- 10V		Clip cable	J23	Pin 1	Line voltage phase A	en, we need your opinion on this particular cor	nector
AO18	+/- 10V		Clip cable	J23	Pin 4	Line voltage phase B	en, we need your opinion on this particular cor	nector
AO19	+/- 10V		Clip cable	J23	Pin 7	Line voltage phase C	en, we need your opinion on this particular cor	nector
AO20	+/- 10V		(Molex) Micro-Fit 6 Receptacle: 43645-0600	J20	Pin 2	Remote sense phase A		
AO21	+/- 10V		(Molex) Micro-Fit 6 Receptacle: 43645-0600	J20	Pin 3	Remote sense phase B		
AO22	+/- 10V		(Molex) Micro-Fit 6 Receptacle: 43645-0600	J20	Pin 4	Remote sense phase C		
AGND	GND		Molex Flat ribbon (AMP) 1658621-6	J11	Pin 21	EPC Phase C1 return		
AGND	GND		Molex Flat ribbon (AMP) 1658621-6	J11	Pin 23	EPC Phase C2 return		
AGND	GND		Molex Flat ribbon (AMP) 1658621-6	J11	Pin 25	EPC Phase B1 return		
AGND	GND		Molex Flat ribbon (AMP) 1658621-6	J13	Pin 23	EPC Phase A1 return		
AGND	GND		Molex Flat ribbon (AMP) 1658621-6	J13	Pin 25	EPC Phase A2 return		
AGND	GND	(N	Nolex) Micro-Fit 2 Position Receptacle: 43645-0	J4, J5, J6	J4 pin 2, J5 pin 2, J6 pin 2	Ground Aux Temp B, Aux Temp A, and Aux Temp C	E GROUND THIS UNITL WE FIGURE OUT OPAMI	ISSUES
AGND	GND		Molex Flat ribbon	J13	Pin 21	EPC Phase B2 return		
AGND	GND		Molex Flat ribbon	J11	Pin 21	EPC Phase C1 return		
AGND	GND		Molex Flat ribbon	J11	Pin 23	EPC Phase C2 return		
AGND	GND		Molex Flat ribbon	J11	Pin 25	EPC Phase B1 return		
AGND	GND		Molex Flat ribbon	J13	Pin 23	EPC Phase A1 return		
AGND	GND		Molex Flat ribbon	J13	Pin 25	EPC Phase A2 return		
AGND	GND		Molex Flat ribbon	J13	Pin 21	EPC Phase B2 return		
AGND	GND		Molex	J4, J5, J6	J4 pin 2, J5 pin 2, J6 pin 2	Ground Aux Temp B, Aux Temp A, and Aux Temp C		
AGND	GND		Molex micro fit 6		Pin 6	Remote sense ISO Gnd		
AGND	GND		Molex micro fit 6	J20	Pin 6	Remote sense ISO Gnd		



+3.3V or +5V

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Typhoon HIL Color code inverter 1 Color code Inverter 2			14.01.2016.						
			(NAME)						
			HIL CON	INECT DIGITAL C	UTPUTS				
HIL input	Rating	Output impedance	Connector Type	Connector	Signal (Oztek output)	Signal description	Comments		
DI1	0 - 15V	100 ohm	Molex Flat ribbon (AMP) 1658621-6	J11	Pin 4	Sc1_top	EPC board 1		
DI2	0 - 15V	100 ohm	Molex Flat ribbon (AMP) 1658621-6	J11	Pin 2	Sc1_bottom			
DI3	0 - 15V	100 ohm	Molex Flat ribbon (AMP) 1658621-6	J11	Pin 10	Sb1_top			
DI4	0 - 15V	100 ohm	Molex Flat ribbon (AMP) 1658621-6	J11	Pin 8	Sb1_bottom			
DI5	0 - 15V	100 ohm	Molex Flat ribbon (AMP) 1658621-6	J13	Pin 7	Sa1_top			
DI6	0 - 15V	100 ohm	Molex Flat ribbon (AMP) 1658621-6	J13	Pin 5	Sa1_bottom			
DI7		(N	1olex) Micro-Fit 2x4 Receptacle: 43025-08	J8	Pin 1	Contactor K2	ıires 10k ohm res between pin and g		
DI8		(N	40lex) Micro-Fit 2x4 Receptacle: 43025-08	J8	Pin 2	Contactor K1	ıires 10k ohm res between pin and g		
DI9		(N	40lex) Micro-Fit 2x4 Receptacle: 43025-08	J8	Pin 3	Contactor MX2	ıires 10k ohm res between pin and g		
DI10		(N	40lex) Micro-Fit 2x4 Receptacle: 43025-08	J8	Pin 4	Contactor MX1	ires 10k ohm res between pin and و		
DI11		N	Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 5	To be announced			
DI12		N	Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 6	To be announced			
DI13		N	Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 7	To be announced			
DI14		N	Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 8	To be announced			
DI15	0 - 15V	100 ohm	Molex Flat ribbon (AMP) 1658621-6	J11	Pin 4	Sc1_top	EPC board 2		
DI16			Molex Flat ribbon (AMP) 1658621-6	J11	Pin 2	Sc1_bottom			
DI17			Molex Flat ribbon (AMP) 1658621-6	J11	Pin 10	Sb1_top			
DI18			Molex Flat ribbon (AMP) 1658621-6	J11	Pin 8	Sb1_bottom			
DI19			Molex Flat ribbon (AMP) 1658621-6	J13	Pin 7	Sa1_top			
DI20			Molex Flat ribbon (AMP) 1658621-6	J13	Pin 5	Sa1_bottom			
DI21		(N	Nolex) Micro-Fit 2x4 Receptacle: 43025-08	J8	Pin 1	Contactor K2	ires 10k ohm res between pin and و		
DI22		(N	(Molex) Micro-Fit 2x4 Receptacle: 43025-08		Pin 2	Contactor K1	ires 10k ohm res between pin and و		
DI23		(Molex) Micro-Fit 2x4 Receptacle: 43025-08		J8	Pin 3	Contactor MX2	ires 10k ohm res between pin and و		
DI24		(N	1olex) Micro-Fit 2x4 Receptacle: 43025-08	J8	Pin 4	Contactor MX1	ires 10k ohm res between pin and و		
DI25		N	Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 5	To be announced			
DI26		N	Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 6	To be announced			
DI27		N	Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 7	To be announced			
DI28		N	Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 8	To be announced			
DI29									
DI30									
DI31									
DI32									
DIG GND			J	111	Pin 1		EPC Board 1		
DIG GND			J	111	Pin 18				
DIG GND			J	111	Pin 19				
DIG GND			J	113	Pin 1				
DIG GND			J	113	Pin 18				
DIG GND			J	113	Pin 19				
DIG GND		(N	Nolex) Micro-Fit 2x4 Receptacle: 43025-08	J8	Pins 5-8				
DIG GND		·		111	Pin 1		EPC Board 2		
DIG GND			J	111	Pin 18				
DIG GND			J	111	Pin 19				
DIG GND			J	113	Pin 1				
DIG GND			J	113	Pin 18				
DIG GND				113	Pin 19				
DIG GND		(N	Nolex) Micro-Fit 2x4 Receptacle: 43025-08	J8	Pin 5-8				
+3.3V or +5V			Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 1		EPC Board 1		
+3.3V or +5V			Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 2				
+3.3V or +5V			Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 3				
+3.3V or +5V			Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 4				
+3.3V or +5V			Nolex micro-fit 2x4 receptacle: 43025-080	J10	Pin 1		EPC Board 2		
+3.3V or +5V			Molex micro-fit 2x4 receptacle: 43025-080	J10	Pin 2				
+3.3V or +5V			Molex micro-fit 2x4 receptacle: 43025-080	J10	Pin 3				

Molex micro-fit 2x4 receptacle: 43025-080

Pin 4



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14.01.2016.	(NAME)

HIL CONNECT DIGITAL INPUTS							
HIL Output	Rating	Input impedance	Connector Type	Connector	Signal	Signal description	Comments
DO1	+3.3V	Molex micro	-fit 2x4 receptacle	J9	Pin 1	ISO_DI0	EPC Board 1
DO2	+3.3V	Molex micro	-fit 2x4 receptacle	J9	Pin 2	ISO_DI1	
DO3	+3.3V	Molex micro	-fit 2x4 receptacle	J9	Pin 3	ISO_DI2	
DO4	+3.3V	Molex micro	-fit 2x4 receptacle	J9	Pin 4	ISO_DI3	
DO5	+3.3V	Molex micro	-fit 2x4 receptacle	J9	Pin 1	ISO_DIO	EPC Board 2
DO6	+3.3V	Molex micro	-fit 2x4 receptacle	J9	Pin 2	ISO_DI1	
DO7	+3.3V	Molex micro	-fit 2x4 receptacle	J9	Pin 3	ISO_DI2	
DO8	+3.3V	Molex micro	-fit 2x4 receptacle	J9	Pin 4	ISO_DI3	
DO9							
DO10							
DO11							
DO12							
DO13							
DO14							
DO15							
DO16							
DO17							
DO18							
DO19							
DO20							
DO21							
DO22							
DO23							
DO24							
DO25							
DO26							
DO27							
DO28							
DO29							
DO30							
DO31							
DO32							
DIG GND				J9	Pin 5	RTN	EPC board 1
DIG GND				J9	Pin 6	RTN	
DIG GND				J9	Pin 7	RTN	
DIG GND				J9	Pin 8	RTN	
DIG GND				J9	Pin 5	RTN	Board 2
DIG GND				J10	Pin 6	RTN	
DIG GND				J11	Pin 7	RTN	
DIG GND				J12	Pin 8	RTN	