

BEPOC Generation II PCB Electrical Characteristics					
Symbol	Description	PCB Terminal Name	Min	Max	Unit
Vs	Power Supply Voltage	24V & GND	9	28	VDC
Is	Power Supply Current	24V & GND	50	90	mA
ViLo	Digital Input Low (0)	DI1-DI8 (DI1-4 used by POC)	< 0.3*Vs		VDC
ViHi	Digital Input High (1)	DI1-DI8 (DI1-4 used by POC)	> 0.3*Vs		VDC
ViLo	High Speed PI Low (0) (4.3K pull-up)	PI1/DI9,PI2, PI3, PI4/DI10	< Vs-3.5V		VDC
ViHi	High Speed PI Low (0) (4.3K pull-up)	(PI2 and PI3 used by POC)	> Vs-3.5V		VDC
VoLo	Digital Out Low (0) @ 50mA max	DO1-DO16 (DO1-4 used by POC)	0.2		VDC
VoHi	Digital Out High (1) @ 0mA max	DO1-DO16 (DO1-4 used by POC)	0	28	VDC
Vai	Analog Input Voltage Mode	AI1-AI8 (AI1,AI8 used by POC)	0	12	VDC
Iai	Analog Input Current Mode	AI1-AI8 (AI1,AI8 used by POC)	0	30	mA
Vin+	Load Cell Bridge Input +	IN+	0	12.5	mVDC
Vin-	Load Cell Bridge Input -	IN-	0	12.5	mVDC
Iao	Analog Output Current	AO1-AO6 (AO1 used by POC)	0	22	mA
V3.3	Voltage Ref of 3.3 internal	3.3V @ < 10mA	3.3		V
V5	Voltage Ref of 5V internal	5V @ < 10mA	5		V
Vbatt	External Battery Charge	VBAT (Vs > 16.7VDC)	2	14.4	VDC
Ibatt	External Battery Charge	Const Charge Current	0.5	1	A
Comms	Communication Ports 0-3 (RS485 only)	+Ax/-Bx (x=0-3) (+A3/-B3 used by HMI)	-7	12	VDC