

Connector	Photon 1 Pin	Annunciator Conection	Animatronic Mouth connection	Photon - GEN 3 mapping	Connector	Gen 3 (Argon/Boron) Pin	Photon 2 Pin	NOTES
JP3 - 1	VIN	Vcc	Vcc	VUSB	JP2 - 1	!RESET	!RESET	OK
JP3 - 2	GND	GND	GND	GND	JP2 - 2	3V3	3V3	OK
JP3 - 3	TX	TX - MP3 RX	TX - MP3 RX	TX	JP2 - 3	N/C	MODE	OK
JP3 - 4	RX	RX - MP3 TX	RX - MP3 TX	RX	JP2 - 4	GND	GND	OK
JP3 - 5	WKP	N/C	N/C		JP2 - 5	A0	A0	N/C (OK for Mouth Board)
JP3 - 6	DAC	N/C	N/C		JP2 - 6	A1	A1	N/C (OK for Mouth Board)
JP3 - 7	A5	N/C	SEN_A5	A5	JP2 - 7	A2	A2	N/C (OK for Mouth Board)
JP3 - 8	A4	N/C	SEN_A4	A4	JP2 - 8	A3	A5	Photon A3 will connect to Photon 2 A5
JP3 - 9	A3 (SCK)	PB INPUT (DIO)	SEN_A3	A3	JP2 - 9	A4	S4	N/C (SEN A4 maps to Photon 2 S4)
JP3 - 10	A2	N/C	ANALOG - REF	A2	JP2 - 10	A5	S3	N/C (SEN A5 maps to Photon 2 S3)
JP3 - 11	A1	N/C	ANALOG - PREAMP	A1	JP2 - 11	SCK	SCLK	N/C
JP3 - 12	A0	N/C	ANALOG - ENVLOPE	A0	JP2 - 12	MOSI	MODE	N/C
JP3 - 13	B5 (ELECTRON ONLY)	N/C	N/C		JP2 - 13	MISO	M1	N/C
JP3 - 14	B4 (ELECTRON ONLY)	N/C	N/C		JP2 - 14	RX	RX	N/C
JP3 - 15	B3 (ELECTRON ONLY)	N/C	N/C		JP2 - 15	TX	TX	N/C
JP3 - 16	B2 (ELECTRON ONLY)	N/C	N/C		JP2 - 16	N/C	N/C	N/C
JP3 - 17	B1 (ELECTRON ONLY)	N/C	N/C		X			N/C
JP3 - 18	B0 (ELECTRON ONLY)	N/C	N/C		X			N/C
JP4 - 1	3V3	3V3 OUT	3V3 OUT	3V3 OUT	JP1 - 1	LI+	LI+	N/C
JP4 - 2	!RESET	N/C	N/C	!RESET	JP1 - 2	EN	EN	N/C
JP4 - 3	VBAT	N/C	N/C		JP1 - 3	VUSB	VUSB	OK
JP4 - 4	GND	GND	GND		JP1 - 4	D10	D10	N/C
JP4 - 5	D7	N/C	N/C	D7	JP1 - 5	D7	D7	N/C
JP4 - 6	D6	LED (GREEN)	LED (GREEN)	D6	JP1 - 6	D6	D6	OK
JP4 - 7	D5	LED (RED)	LED (RED)	D5	JP1 - 7	D5	D5	OK
JP4 - 8	D4	N/C	SERVO - N/C	D4	JP1 - 8	D4	D4	OK
JP4 - 9	D3	N/C	SERVO - MOUTH	D3	JP1 - 9	D3	D3	OK
JP4 - 10	D2	N/C	MP3 - BUSY	D2	JP1 - 10	D2	D2	OK
JP4 - 11	D1	N/C	SCL	D1	JP1 - 11	D1	SCL	OK
JP4 - 12	D0	N/C	SDA	D0	JP1 - 12	D0	SDA	OK
JP4 - 13	C5 (ELECTRON ONLY)	N/C	N/C		X			N/C
JP4 - 14	C4 (ELECTRON ONLY)	N/C	N/C		X			N/C
JP4 - 15	C3 (ELECTRON ONLY)	N/C	N/C		X			N/C
JP4 - 16	C2 (ELECTRON ONLY)	N/C	N/C		X			N/C
JP4 - 17	C1 (ELECTRON ONLY)	N/C	N/C		X			N/C
JP4 - 18	C0 (ELECTRON ONLY)	N/C	N/C		X			N/C