



Universal Payload Connector

2.1 25P

Spec Sheet

This datasheet describes the payload connections on the bottom of the IF1200. It applies to PDB part number 101599 revision G and later.

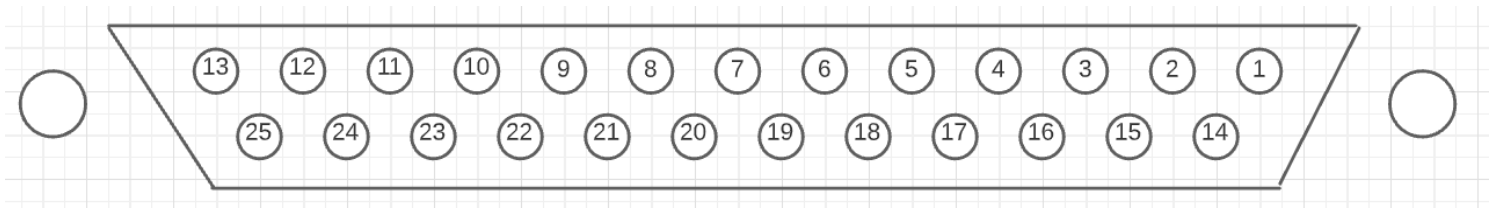
Each vehicle is outfitted with a 12" long cable, just above the bottom payload plate, that has a TE Connectivity Aerospace: Amplitude 109 connector. The connector has 25 pins that can be used for wiring any payload. The pinout and descriptions of each pin are listed below.



Connector Type:

Connector Manufacturer	TE Connectivity Aerospace
Manufacturer Part Number	205560-2
Series	AMPLIMITE109
Connector Type	Receptacle, Female Sockets
Contact Type	Signal
Number of Positions	25
Number of Rows	2
Current Rating(per pin)	5A

Connector Pinout:



Pin	Pin Name	Description	Notes
1	UPI_PWM1	LED0 on PCA9685	PCA9685 is a PWM controller connected to the i2c bus 2 on the Flight Core.
2	UPI_PWM2	LED1 on PCA9685	
3	UPI_PWM3	LED3 on PCA9685	
4	UPI_PWM4	LED4 on PCA9685	
5	5V	5V Regulator on PDB Max Current: 5A	
6	12V or 15V	12V or 15V from PDB Max Current: 5A	Connect B1 on PDB with a jumper for 15V operation
7	PWM7	PWM7 on Flight Core	Camera triggering
8	PWM8	PWM8 on Flight Core	Camera triggering
9	BAT	12S Max Current: 5A	IMPORTANT: Disconnect payloads before powering on!
10	UPI_UART1_TXD	Flight Core UART1	UART2_4W_TX_3V3
11	UPI_UART1_RXD	Flight Core UART1	UART2_4W_RX_3V3
12	UPI_UART2_TXD	Flight Core UART2	UART4_2W_TX_3V3
13	UPI_UART2_RXD	Flight Core UART2	UART4_2W_RX_3V3

14	GND	PDB GND	
15	GND	PDB GND	
16	GND	PDB GND	
17	5V	5V Regulator on PDB Max Current: 5A	
18	12V or 15V 2nd	12V or 15V from PDB Max Current: 5A	Connect B2 on PDB with a jumper for 15V operation
19	GND	PDB GND	
20	GND	PDB GND	
21	18V	18V Regulator Max Current: 5A	Supply for companion computers such as Nvidia Jetson TX2
22	GND	PDB GND	
23	GND	PDB GND	
24	GND	PDB GND	
25	SBUS	HereLink Air Unit SBUS	Gimbal Control