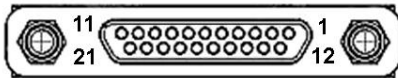


## TASE Gimbal Connector Pin-Outs

**Table 1 - 21-Pin Interface Connector TASE100**

Pin #	Name	Type	Level	Notes
1	AUX_SERVO_PWR	IN	User Defined	Not used
2	GIMBAL_RXD	IN	RS-232	COM3 Receive
3	GND			Ground
4	GIMBAL_TXD	OUT	RS-232	COM3 Transmit
5	AIN10 / TPU_B10	IN/OUT	0-5V/5V	Not used
6	AIN13 / TPU_B13	IN/OUT	0-5V/5V	Not used
7	AIN12 / TPU_B12	IN/OUT	0-5V/5V	Not used
8	CAN_LO_B		CAN	CAN interface to Piccolo autopilot and simulator
9	AIN15 / TPU_B15	IN/OUT	0-5V/5V	COM4 Receive (TTL level)
10	GIMBAL_PWR	IN	10-30V	Power in
11	GIMBAL_PWR	IN	10-30V	Power in
12	AIN11 / TPU_B11	IN/OUT	0-5V/5V	Not used
13	GND			Ground
14	CAN_HI_B		CAN	CAN interface to Piccolo autopilot and simulator
15	GND			Ground
16	GND			Ground
17	GND			Ground
18	AIN14 / TPU_B14	IN/OUT	0-5V/5V	COM4 Transmit (TTL level)
19	GND			Ground
20	GND			Ground
21	GND			Ground

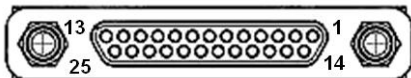


Mating Connector: 21-Pin Micro D Pigtail Glenair p/n – MWDM2L-21S-4K1-36B / CCT p/n – 760-01936-00

**Table 2 - 25-Pin Primary Interface Connector TASE150/200**

 Denotes pin-outs specific to the TASE200.

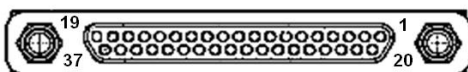
Pin #	Name	Type	Level	Notes
1	Gimbal Power	IN	9-20 V	Power In
2	Gimbal Power	IN	9-20 V	Power In
3	GND			Ground
4	GND			Ground
5	Gimbal TXD RS232	OUT	RS-232	COM3 Transmit
6	Gimbal RXD RS232	IN	RS-232	COM3 Receive
7	GND			Ground
8	Switched Gimbal Power	Out		3 Amp switched (9-20 volt) Gimbal Power
9	GND			Ground
10	External Camera Power	IN		Allows camera power input through connector. Factory jumper selectable
11	GND			Ground
12	TASE Video OUT			Factory Jumper Selectable Video Output. Default is NC
13	TASE Video GND			Factory Jumper Selectable Video Output. Default is NC
12	TASE P-Video OUT			Factory Jumper Selectable Primary Video Output. Default is NC
13	TASE Video GND			Primary Video GND
14	TPU_A5	I/O	5V	Not used
15	TPU_B14	I/O	5V	COM4 Transmit (TTL level)
16	TPU_B15	I/O	5V	COM4 Receive (TTL level)
17	GND			Ground
18	GPIO 1	I/O	5V	General Purpose Input/output Do Not Exceed 0~5V Input
19	GND			Ground
20	AIN3	IN	0-5V	0-5 volts 10bit AtoD input Do Not Exceed 0~5V Input
21	5VD	OUT	5V	Up to 1A of 5-volt output for external sensors
22	CAN HI B		CAN	CAN interface to Piccolo autopilot and simulator
23	CAN LO B		CAN	CAN interface to Piccolo autopilot and simulator
24	TASE No Connect (NC)			Spare I/O
25	TASE No Connect (NC)			Spare I/O
24	TASE S-Video Out			Secondary video OUT
25	TASE GND			Secondary video GND



Mating Connector: 25-Pin Micro D Pigtail Glenair p/n – MWDM2L-6K1-36B / CCT p/n – 760-00636-00

**Table 3 - 37-Pin Auxiliary Interface Connector TASE100/150/200/300 Auxiliary**

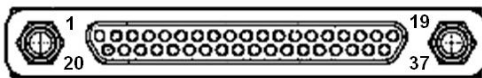
Pin #	Name	Type	Level	Notes
27	TXD_RS232	O	RS232	COM2 Transmit
26	RXD_RS232	I	RS232	COM2 Receive
25	GND			Ground
24	*PROGRAM/USER	I	5V	Program/User Mode Control Input - MPIO32B5
23	*HRESET	I	5V	Hardware Reset - active low
7	SCI_2_TX_232	O	RS232	COM1 Transmit / Programming Port
6	SCI_2_RX_232	I	RS232	COM1 Receive / Programming Port
5	GND			Ground
1-4/8-22	Factory only			Do Not Connect!



Mating Connector: 37-Pin Micro-D Pigtail. Glenair p/n – MWDM2L-37S-4K-36B / CCT p/n - 760-01085-00

**Table 4 - 37-Pin Primary Connector Pin-Out for TASE300**

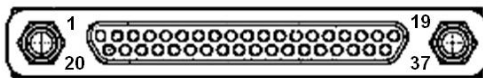
PIN	Name	Type	Level	Notes
1	GIMBAL_RXD_RS232	IN	RS-232	COM3 Receive
2	GND			Ground
3	GIMBAL_TXD_RS232	OUT	RS-232	COM3 Transmit
4	GND			Ground
5	GND			Ground
6	FP_SPARE_PWM_0	OUT	0 to 5V	Not used
7	FP_SPARE_PWM_1	OUT	0 to 5V	Not used
8	No Connect			Not used
9	GND			Ground
10	GND			Ground
11	PRI_VID_OUT			Factory Jumper Selectable Video Output. Default is NC.
20	SWITCHED_GIMBAL_PWR	OUT	Gimbal Input Voltage	3A power output from gimbal. On/Off controlled by gimbal.
21	CAN_HI_A		CAN	CAN interface to Piccolo autopilot and simulator
22	CAN_LO_A		CAN	CAN interface to Piccolo autopilot and simulator
23	FP_SPARE_1_TXD	OUT	RS-232	COM4 Transmit
24	FP_SPARE_1_RXD	IN	RS-232	COM4 Receive
25	GND			Ground
26	GND			Ground
27	TERT_VID_OUT	OUT		Factory Jumper Selectable Video Output. Default is NC
28	GND			Ground
29	SEC_VID_OUT	OUT		Factory Jumper Selectable Video Output. Default is NC
12	GND			A total of 8 pins are available for Gimbal power ground. All 8 pins are connected together on the circuit board. Cloud Cap recommends a minimum of 4 pins be used. More pins should be added for custom payloads. Each additional pin can support another 2.5 Amps of input current. Number of ground pins should match number of Gimbal power pins.
13				
14				
15				
30				
31				
32				
33				
16	GIMBAL_PWR	IN	10-30V	A total of 8 pins are available to power the Gimbal. All 8 pins are connected together on the circuit board. Cloud Cap recommends a minimum of 4 pins be used. More pins should be added for custom payloads. Each additional pin can support another 2.5 Amps of input current. Number of ground pins should match number of Gimbal power pins.
17				
18				
19				
34				
35				
36				
37				



Mating Connector: 37-Pin Micro-D Pigtail. Glenair p/n – MWDM2L-37P-4K-36B / CCT p/n - 760-01833-00

**Table 5 - 37-Pin Primary Connector Pin-Out for TASE400**

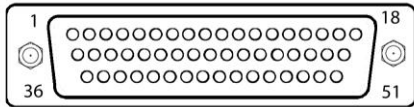
PIN	Name	Type	Level	Notes
1	GIMBAL_RXD_RS232	IN	RS-232	COM3 Receive
2	GND			Ground
3	GIMBAL_TXD_RS232	OUT	RS-232	COM3 Transmit
4	GND			Ground
5	GND			Ground
6	CAN_HI_B		CAN	Not used
7	CAN_LO_B		CAN	Not used
8	SPARE_PWM_0	OUT	0 to 5V	Not used
9	GND			Ground
10	GND			Ground
11	CAM0_VIDEO			CAM0 Raw Video Output.
20	SWITCHED_GIMBAL_PWR	OUT	Gimbal Input Voltage	3A power output from gimbal. On/Off controlled by gimbal.
21	CAN_HI_A		CAN	CAN interface to Piccolo autopilot and simulator
22	CAN_LO_A		CAN	CAN interface to Piccolo autopilot and simulator
23	FP_SPARE_1_TXD	OUT	RS-232	COM4 Transmit
24	FP_SPARE_1_RXD	IN	RS-232	COM4 Receive
25	GND			Ground
26	GND			Ground
27	CAM2_VIDEO	OUT		CAM2 Raw Video Output
28	GND			Ground
29	CAM1_VIDEO	OUT		CAM1 Raw Video Output
12	GND			A total of 8 pins are available for Gimbal power ground. All 8 pins are connected together on the circuit board. Cloud Cap recommends a minimum of 4 pins be used. More pins should be added for custom payloads. Each additional pin can support another 2.5 Amps of input current. Number of ground pins should match number of Gimbal power pins.
13				
14				
15				
30				
31				
32				
33				
16	GIMBAL_PWR	IN	10-30V	A total of 8 pins are available to power the Gimbal. All 8 pins are connected together on the circuit board. Cloud Cap recommends a minimum of 4 pins be used. More pins should be added for custom payloads. Each additional pin can support another 2.5 Amps of input current. Number of ground pins should match number of Gimbal power pins.
17				
18				
19				
34				
35				
36				
37				



Mating Connector: 37-Pin Micro-D Pigtail. Glenair p/n – MWDM2L-37P-4K-36B / CCT p/n - 760-01833-00

**Table 6 - 51-Pin Auxiliary Connector Pin-Out for TASE400**

Pin #	Name	Type	Level	Notes
33	TXD_RS232	O	RS232	COM1 Transmit
50	RXD_RS232	I	RS232	COM1 Receive
15	GND			Ground
48	*PROGRAM/USER	I	5V	Program/User Mode Control Input - MPIO32B5
31	*HRESET	I	5V	Hardware Reset - active low
32	SCI_2_TX_232	O	RS232	COM2 Transmit / Programming Port
49	SCI_2_RX_232	I	RS232	COM2 Receive / Programming Port
14	GND			Ground



Mating Connector: 51-Pin Micro-D Pigtail. Glenair p/n MWDM2L-51S-4K1-36B / CCT p/n - 760-01937-00