2.7.4 CONTROL I/O D-SUB 25-pin CONNECTOR

Pin No.	Pin Name	I/O	Signal Type	Modification	Function	Rating and Condition					Note
						Parameter	Min	Typ	Max	Unit	
1	NC	-		No							
	RSSI	O	Analog	Yes	RSSI Voltage	Range	0.0		3.3	V	
	RESET	I	Digital	Yes	Reset	VIH	3	5	+B	V	
						VIL			0.5	V	
						High Pulse Width	100			ms	
2	RXD2	I	Digital	No	Asynchronous Receive Data	Voltage Range	-30		30	V	Conform to RS-232C
						Baud Rate			230	kbps	
3	TXD2	O	Digital	No	Asynchronous Send Data	RL=3k	+/-5.0	+/-9.0		V	Conform to RS-232C
						Baud Rate			230	kbps	Conform to RS-232C
4	AI1	I	Digital	No	Programmable Function Input1	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	Conform to RS-232C
	CTS	I	Digital	Yes	Clear to Send	Voltage Range	-30		30	V	
5	AI2	I	Digital	No	Programmable Function Input2	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
	RTS	O	Digital	Yes	Request to Send	Voltage Swing RL=3k	+/-5.0	+/-9.0		V	Conform to RS-232C
6	AI3	I	Digital	No	Programmable Function Input3	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
7	DG	-	GND		Digital Ground	-	-	-	-		
8	TD	I	Analog	No	TX Data Input (Signaling)	0.1kHz/0.5Vp-p	0.70	0.75	0.80		NFW WFM
						Input Impedance		600			600 PD to GND

Pin No.	Pin Name	I/O	Signal Type	Modification	Function	Rating and Condition					Note
						Parameter	Min	Typ	Max	Unit	
9	TA	I	Analog	No	TX Audio Input (Voice)	1kHz/60%Dev. Input Max =2.0Vrms	270	280	290	mVrms	NFW WFM
						Input Impedance		600			600 PD to GND
10	RD	O	Analog	No	RX Data Output (Signaling) Not Squelched	Output Voltage /60%Dev.	75	80	85	mVrms	Allowable Load 47k
11	RA	O	Analog	No	RX Audio Output (Voice) Squelched	Output Voltage /60%Dev.	380	400	420	mVrms	Allowable Load 47k
12	RXG	-	GND	No	RX Signal Ground	-	-	-	-		
13	NC	-	-	No	-	-	-	-	-		
14	AO1	O	Digital	No	Auxiliary Output1 Open Collector	External Voltage			16	V	
						Allowable Current			200	mA	
				Yes	Auxiliary Output1 Open Collector With PU	PU Resistor	4.7k	47k			VCC 5V+/-3%
						VOL(IO=0mA)			0.1	V	
15	EMON	I	Digital	No	External Monitor Switch	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
16	EPTT	I	Digital	No	External PTT Switch	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
17	SC	O	Digital	No	Squelch Control	VOH		VCC		V	Open Drain 47k PU to VCC 5V+/-3%
						VOL			0.4	V	
18	AO2	O	Digital	No	Auxiliary Output2	External Voltage			16	V	
						Allowable Current			200	mA	
				Yes	Auxiliary Output2 Open Collector With PU	PU Resistor	4.7k	47k			VCC 5V+/-3%
						VOL(IO=0mA)			0.1	V	
19	TXG	-	GND	No	TX Signal Ground	-	-	-	-	-	
20	IO1	I	Digital	No	Programmable Function I/O1	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
						Input Impedance		47k			
		O				VOH(IO=0mA)		VCC		V	Open Drain 47k PU to VCC 5V+/-3%
						VOL(IO=0mA)			0.4	V	
21	IO2	I	Digital	No	Programmable Function I/O2	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
						Input Impedance		47k			
		O				VOH(IO=0mA)		VCC		V	Open Drain 47k PU to VCC
						VOL(IO=0mA)			0.4	V	

Pin No.	Pin Name	I/O	Signal Type	Modification	Function	Rating and Condition					Note
						Parameter	Min	Typ	Max	Unit	
22	IO3	I	Digital	No	Programmable Function I/O3	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
						Input Impedance		47k			
		O				VOH(IO=0mA)		VCC		V	Open Drain 47k PU to VCC 5V+/-3%
						VOL(IO=0mA)			0.4	V	
23	IO4	I	Digital	No	Programmable Function I/O4	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
						Input Impedance		47k			
		O				VOH(IO=0mA)		VCC		V	Open Drain 47k PU to VCC 5V+/-3%
						VOL(IO=0mA)			0.4	V	
24	IO5	I	Digital	No	Programmable Function I/O5	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
						Input Impedance		47k			
		O				VOH(IO=0mA)		VCC		V	Open Drain 47k PU to VCC 5V+/-3%
						VOL(IO=0mA)			0.4	V	
25	IO6	I	Digital	No	Programmable Function I/O6	VIH	0.7*VCC		VCC	V	47k PU to VCC 5V+/-3%
						VIL	VSS		0.8	V	
						Input Impedance		47k			
		O				VOH(IO=0mA)		VCC		V	Open Drain 47k PU to VCC 5V+/-3%
						VOL(IO=0mA)			0.4	V	