

# IP-224 to IP-223 Pin-Out Conversion Chart

IP-224 to IP-223 Pin-Out Conversion Chart

IP-224 DB-37 Pin #	Pin Function	IP-223		
		DB-25	DB-9 Serial Port	
		Pin #	Line 1 Pin #	Line 2 Pin #
1	TX+ Audio	25		
2	TX- Audio	13		
3	CTCSS/Spare Audio Output	11		
4	RSSI Input User selectable	N/A		
5	PTT Relay Common Contact	2		
6	MON Relay N.C. Contact	15		
7	MON Relay N.O. Contact	3		
8	Function #1 Relay Common Contact	5		
9	Function #2 Relay N.C Contact	18		
10	Function #2 Relay N.O. Contact	6		
11	Digital I/O #0	8		
12	Digital I/O #2	9		
13	Digital I/O #4	10		
14	Digital I/O #6	20*		
15	COR Input			
16	RS-485/CAN D+	N/A		
17*	RS-232/TTL TXD		RS=2 / TL=9	RS=8 / TL=4
18	USB V Bus/+5Vdc	N/A		
19	USB D+	N/A		
20	RX+ Audio	24		
21	RX- Audio	12		
22	Spare Audio Input	N/A		
23	PTT Relay N.C. Contact	1		
24	PTT Relay N.O. Contact	14		
25	MON Relay Common Contact	16		
26	Function #1 Relay N.C. Contact	4		
27	Function #1 Relay N.O. Contact	17		
28	Function #2 Relay Common Contact	19		
29	Ground	7	5	5
30	Digital I/O #1	21		
31	Digital I/O #3	22		
32	Digital I.O #5	23		
33	Digital I/O #7	N/A		
34	RS-485 Busy	N/A		
35	RS-485/CAN D-	N/A		
36*	RS-232/TTL RXD		RS=3 / TL=1	RS=7 / TL=6
37	USB D-	N/A		

\*=Shared pin function

IP-224 to IP-223 Pin-Out Conversion Chart

IP-223			Pin Function	IP-224
DB-25	DB-9 Serial Port			DB-37
Pin #	Line 1 Pin #	Line 2 Pin #		Pin #
1			PTT Relay N.C. Contact	23
2			PTT Relay Common Contact	5
3			MON Relay N.O. Contact	7
4			Function #1 Relay N.C. Contact	26
5			Function #1 Relay Common Contact	8
6			Function #2 Relay N.O. Contact	10
7	5	5	Ground	29
8			Digital I/O #0	11
9			Digital I/O #2	12
10			Digital I/O #4	13
11			CTCSS/Spare Audio Output	3
12			RX- Audio	21
13			TX- Audio	2
14			PTT Relay N.O. Contact	24
15			MON Relay N.C. Contact	6
16			MON Relay Common Contact	25
17			Function #1 Relay N.O. Contact	27
18			Function #2 Relay N.C Contact	9
19			Function #2 Relay Common Contact	28
20*			Digital I/O #6	14
20*			COR Input	15
21			Digital I/O #1	30
22			Digital I/O #3	31
23			Digital I.O #5	32
24			RX+ Audio	20
25			TX+ Audio	1
N/A			RSSI Input User selectable	4
N/A			RS-485/CAN D+	16
N/A			USB V Bus/+5Vdc	18
N/A			USB D+	19
N/A			Spare Audio Input	22
N/A			Digital I/O #7	33
N/A			RS-485 Busy	34
N/A			RS-485/CAN D-	35
N/A			USB D-	37
	RS=2 / TL=9	RS=8 / TL=4	RS-232/TTL TXD	17*
	RS=3 / TL=1	RS=7 / TL=6	RS-232/TTL RXD	36*

\*=Shared pin function

<b>Revision History</b>		
<b>Document Title:</b> IP-224 to IP-223 Pin-Out Conversion Chart.		
<b>Document Number:</b> AN-DISPATCH- REFERENCE1		
<b>Revision</b>	<b>Change Description</b>	<b>Date</b>
A	Released.	28-MAY-2013

**Suggestions or comments:**

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