

**Relm
GMH Radios to
IP-223 Adapter Panels**



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1.0 General

This application note is intended to show how to assemble a cable and set up the hardware of the IP-223 adapter panel to a Relm GMH series mobile radio.

2.0 Interconnect Cable Assembly

A cable assembly is required to interconnect the HD DB-15 accessory connector of the GMH to the IP-223 Series adapter panels.

Use the following chart to make this interconnect cable assembly.

TABLE 1. Interconnect Cable Assembly Pin Out

IP-223 Series DB-25 Pin	GMH 15-Pin HD	Signal
25	11	MIC +
24	2	RX +
14	12	PTT
7 & 2	6	GND

3.0 IP-223 Series Adapter Panels

3.1 IP-223 Setup

The IP-223 requires the following jumper settings for the desired line:

NOTE: Refer to the IP-223 manual for further instructions.

TABLE 2. Front Panel Dip Switch - TRA-223

Line 1	Jumper Setting	Line 2
J33, J34	B = 4-wire	J5, J6
J16, J21	A = Single Ended	J19, J20
J14	Hanging on Center Pin = 10K Ohm	J24
J3, J9, J11	A = Single Ended	J25, J28, J29
J13	A = High	J27
J17, J22	B = 600 Ohms	J10, J15

NOTES:

Revision History		
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Revision	Change Description	Date
A	Update brand, format and new document number.	01-OCT-2009

Suggestions or comments:

Contact technical support with suggestions or comments concerning this application note.

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