TELEX Application Note

Kenwood Radio
TK-863
to IP-223 Remote Adapter Panel

VOIProven TELEX Radio Dispatch

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Kenwood Radio TK-863 to IP-223 Remote Adapter Panel

1.0 General

The application note is intended to assist technical staff with cable assembly, software configuration and hardware setup of the IP-223 to control a Kenwood*[1] TK-863 radio.

2.0 Setup

2.1 TK-863 Model Cable Assembly

A KCT-19 accessory cable, supplied by Kenwood, is used to connect the IP-223 to the radio's accessory port.

Before connecting to the IP-223, the KCT-19 cable must be modified. See Table 1 for pinout information.

TABLE 1. KCT-19 Accessory Cable Modification Pin Outs

Signal	IP-223 DB-25	KCT-19 Accessory Connector
Ground	7	6
PTT Common	2	6
PTT	14	8
COR	20	11
RX+	24	12
TX+	25	5 through a 100K resistor

2.2 IP-223 Configuration

The IP-223 configuration is accomplished in the Telex System Manager application. Set up the desired IP-223 lines for local radio control, enable COR and set the jumpers.

REFERENCE: For more information, see the Telex System Manager Technical Manual (P/N LIT000259000). This document is available for download at www.radiodispatch.com.

1. See "Copyright Notice" on page 7.

2.2.1 IP-223 Software Setup

Navigation: Open Telex System Manager.

To **configure the IP-223 for Local control**, do the following:

1. In the Processed Devices pane, select the **IP-223** to configure.
2. Click the **Multicast** tab.
   The Multicast page appears.
3. Select the **Enable** check box for the line to configure.
4. From the Type drop down menu, select **Local**.
5. In the Line Name field, enter **a name** for the line.
6. In the Rx Multicast Address field, enter the **Rx Multicast Address**.
7. In the Port field, enter the **port number** for receive audio.
8. In the Tx Multicast Address field, enter the **Tx Multicast Address**.
9. In the Port field, enter the **port number** to transmit audio.

To **configure COR setup**, do the following:

1. While in TSM, click the **Options** tab.
   The Options page appears. See Figure 1
2. Select the **COR Enabled** check box.
3. Clear the **LAM Enabled** check box.
4. Clear the **COR Active High** check box.

NOTE: Full-duplex is not required.

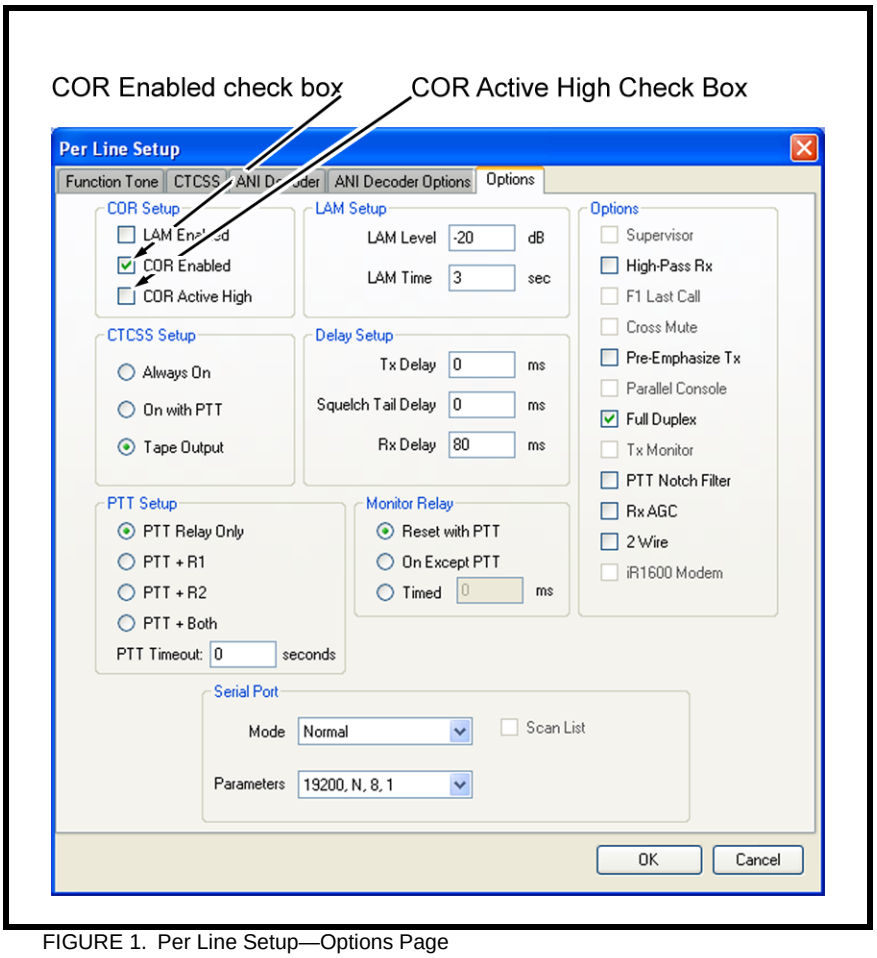

FIGURE 1. Per Line Setup—Options Page

2.2.2 IP-223 Jumper settings

TABLE 2. IP-223 Jumper Settings

Line 1	Jumper Settings	Line 2
J33. J34	B = 4-Wire	J5, J6
J16, J21	A = Single Ended	J19, J20
J14	A = 600	J24
J3, J9, J11	A = Single Ended	J25, J28, J29
J13	B = High	J27
J17, J22	B = 600 Ohms	J10, J15

2.3 TK-863 Configuration

Setup the radio for COR Active low.

REFERENCE: For more information, see manufacturer’s configuration instructions for details specific to your radio model.

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For warranty and service information, refer to www.telex.com/warranty.

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Revision History		
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Revision	**Change Description**	**Date**
A	Update brand, format and new document number. (Reference rev A)	01-OCT-2009
B	Correction to Table 1, see Row 4, Column 3. URL updated.	11-FEB-2011