

## **Brown County 700 MHz Subscriber Radio and Personal Pager Requirements**

The Brown County 700 MHz radio system is a P25 open standards digital, simulcast, trunked radio system.

**Subscriber radios**, which are mobiles, portables, and desk-top radios, that meet the following standard may become accepted for use on this system:

1. Meet the TIA-102 P25 standard for Trunked radio systems
2. Tested and fully functional on a Motorola Solutions Astro P25 trunked radio system
3. Tested and fully functional on the Astro Simulcast radio system

The Brown County base radio system is deployed under the P25 Trunking standard and does not use proprietary features for any required operating feature.

Should any agency require encrypted transmission the Brown County system will support the national standard **AES encryption scheme** as well as the P25 implementation of Over the Air Re-Keying of encrypted radios.

A list follows of the currently tested and approved radio makes and models ready for immediate use on the Brown County radio system. Contact Brown County Communications for details to test and certify additional brands and models (any additional radio unit will not be acceptable until testing and certification are successful and complete).

**Personal pagers** for the Brown County paging system will operate on two Narrowband voice channels via standard tone-and-voice paging technology. Personal pagers must meet the following standards:

1. Receive Narrowband VHF public safety radio channels
2. Be able to receive two different and discrete frequencies
3. Be able to recognize multiple (4 or more) capture codes on each of the two channels

The Motorola Minitor V pager is currently known to meet these standards. Other pagers may be used with the specific understanding that Brown County will be transmitting in the VHF Narrowband mode only.

### **Data Radio Modems**

Brown County is also replacing the current data radio system. The present system is no longer supportable and will be replaced by a new data radio system with increased service area. This system is not a P25 standard and will require the use of HPD 1000 Modem. The present vehicle modems will need to be replaced with the HPD 1000 Modem and that will need to be properly configured for system operation. New installations desiring the use of mobile data will also need a HPD 1000 modem and will need to coordinate installation and programming with Brown County Communications.

The following are the subscriber units approved for operation on the Brown County radio system as of August 22, 2011

<b>Make</b>	<b>Type</b>	<b>Model</b>
EF Johnson	<b>Portables</b>	5187 Full Keypad
EF Johnson		5187 Encrypted
EF Johnson		51SL-ES
Harris		P5400 (portable)
Harris		P7300 (portable)
Kenwood		TK5400 K I&2
Kenwood		TK5410 K I&2
Motorola		XTS 1500
Motorola		XTS 2500, Models I, II, and III
Motorola		XTS 3000, Models I, II, and III
Motorola		XTS 5000, Models I, II, and III
Motorola		XTS-1500, Model 1.5 portable radio
Motorola		APX6000 Model 1, 2, and 3 & APX 6000 XE
Motorola	APX 7000XE & APX 7000	
Tait	TP9100	
Technisonic	<b>Aircraft</b>	TDFM 600
		TDFM 6000
		TDFM 7000
Motorola	<b>Consolette</b>	XTL 5000 & APX 7500
EF Johnson	<b>Mobiles</b>	5387 Dash Mount
EF Johnson		5387 Dash Mount Encrypted

EF Johnson		5388 Remote Mount
EF Johnson		5388 Remote Mount Encrypted
EF Johnson		5388 Dual Control Head
EF Johnson		5388 Dual Control Head Encrypted
EF Johnson		53SL-ES
EF Johnson		5300 ES
Harris		M7300
Harris		M7200
Kenwood		TK5910
Motorola		XTL 1500
Motorola		XTL 2500 Remote Mount
Motorola		XTL 2500 Dash Mount
Motorola		XTL 2500 mobile radio with the M-5 control head
Motorola		XTL 5000 W3 Remote Hand-Held
Motorola		XTL 5000 W4 Dash Mount
Motorola		XTL 5000 W4 Remote Mount
Motorola		XTL 5000 W4 Remote/Dual Control Head
Motorola		XTL 5000 W5 Dash Mount (incl.
Motorola		XTL 5000 W5 Remote Mount
Motorola		XTL 5000 W5 Remote/Dual Control Head
Motorola		XTL 5000 W7 Dash Mount
Motorola		XTL 5000 W7 Remote Mount
Motorola		XTL 5000 W7 Remote/Dual Control Head
Motorola		XTL W9 Remote Mount
Motorola		XTL W9 Remote/Dual Control Head
Motorola		XTL 5000 mobile radio with the O-5 control head, front & rear mount
Motorola		APX 7500 & APX 6500

Motorola		Spectra Dash and Remote Mount
Motorola		Spectra Plus Dash and Remote Mount
Tait		TM9155

Relm	<b>Mobile</b>	KNG-M800
Relm	<b>Portable</b>	KNG-P800