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# **DRB-25**

## **Digital Mobile Radio Repeater and Radio Base Station**

### **Installation and Operator Handbook**

**Document No.:** WWS-MA-00400

**Current Issue:** 0.15 (USA)

**Date:** 13 Mar 2005

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## ***PREFACE***

This manual provides the information personnel will need to install and operate the DRB-25 Dual Channel Radio Base Station.

The manual consists of nine documents, as described below:

	<b>Title</b>	<b>Document Ref</b>	<b>Issue</b>	<b>Date</b>
	Preliminary Pages	WWS-MA-00400	0.15	13 Mar 2005
<b>1</b>	Introduction	WWS-MA-00651	0.06	13 Mar 2005
<b>2</b>	Equipment Description	WWS-MA-00652	0.05	13 Mar 2005
<b>3</b>	Installation Instructions	WWS-MA-00653	0.08	13 Mar 2005
<b>4</b>	Operating Instructions	WWS-MA-00654	0.04	13 Mar 2005
<b>5</b>	Programming and Configuration	WWS-MA-00657	1.05	13 Mar 2005
<b>6</b>	PC Console	WWS-MA-00655	1.00	13 Mar 2000
<b>7</b>	Diagnostics Monitor	WWS-MA-00656	0.03	13 Mar 2000
<b>Appendix A</b>	Box ID and Transceiver Default Channel Settings	WWS-MA-00658	0.03	13 Mar 2000
<b>Appendix B</b>	Module Error Codes and Recommended Actions	WWS-MA-00659	0.03	13 Mar 2000

Definitions of warnings, cautions and notes are shown on the next page. Safety of personnel and equipment depends upon adherence to these precautions.

### **FCC Interference Warning**

This device complies with Part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

For specific instructions regarding antenna safety and safe operating distances see Chapter 3.

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## ***PRECAUTIONARY NOTATIONS***

Where it is necessary to highlight a potentially hazardous situation, a critical procedure or requirement, or an important fact, the appropriate precautionary notation is used:



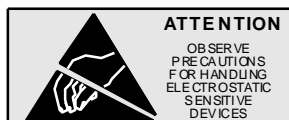
### **WARNING**

**A WARNING PRECEDES A PRACTICE OR PROCEDURE WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN PERSONAL INJURY OR LOSS OF LIFE.**



### **CAUTION**

**A caution precedes a practice or procedure which, if not strictly observed, could result in damage to or destruction of the equipment, or corruption of data.**



**A caution for static devices precedes a practice or procedure which, if not strictly observed, could result in damage to or destruction of the equipment, or corruption of data.**

### **NOTE**

**A note either precedes or follows a practice, procedure or condition which requires highlighting.**

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## ***LIST OF ABBREVIATIONS***

AC	Alternating Current
APCO	Association of Public-Safety Communications Officials - International, Inc.
BER	Bit Error Rate
CAI	Common Air Interface
CM	Controller Module
CDCSS	Continuous Digital Carrier Squelch System
Comms	Communications
CTCSS	Continuous Tone Carrier Squelch System
DC	Direct Current
DMR	Digital Mobile Radio
DTMF	Dual Tone Multiple Frequency
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
IAC	Interface Adapter Card
IM	Interface Module
kHz	Kilohertz
LCD	Liquid Crystal Display
LED	Light Emitting Diode
MHz	Megahertz
PAM	Power Amplifier Module
PA PSM	Power Amplifier Power Supply Module
PABX	Private Automatic Branch Exchange
PBX	Private Branch Exchange
PC	Personal Computer
PCA	Printed Circuit Assembly
PSTN	Public Switched Telephone Network
PTT	Press-to-talk
RF	Radio Frequency
RU	Rack Unit
Rx	Receive
TM	Transceiver Module
TMP	Transceiver Module Programmer
Tx	Transmit
UHF	Ultra High Frequency
V	Volt
VHF	Very High Frequency
W	Watt