

# MOTOTRBO™ TWO-WAY RADIO SELECTION GUIDE

REMASTER YOUR WORKFORCE WITH THE RIGHT RADIO



# REACH THE RIGHT PEOPLE, IN THE RIGHT PLACES



## START WITH COVERAGE AND CAPACITY

Small campus or sprawling facility, single location or satellite work crews, how do you find the right radio for an enterprise? Whether businesses want to connect on site or communicate with a workforce on the go, coverage and capacity needs will drive the system type. First find out how many users, talkgroups and channels a customer will need.

## DEFINE WHO WILL USE THE DEVICE

Tracking inventory throughout the warehouse, transporting equipment to the job site or managing guests across the resort, today's workforce must exchange business-critical voice and data communications. And MOTOTRBO makes efficient information-sharing a reality for businesses on the move.

Are your customers looking for feature-rich solutions in an ultra-thin device? Then the SL1K digital portables are the perfect fit – the ultimate in discreet communication, where function meets style, they complement executive attire.

Are your customers looking for high powered performance combined with day-in, day-out durability? The XiR™ P8600 Series portable radios meets the challenge, integrating voice and data and offering enhanced features such as GPS, integrated Bluetooth® audio & data, and Intelligent Audio.

Are your customers seeking a tough-as-nails mobile that goes the distance and delivers expanded capabilities like integrated GPS, text messaging and Bluetooth® audio and data? Then the XiR™ M8600 Series is the ideal match.

For customers looking for a scalable portable solution to help achieve greater productivity, safety and cost-effectiveness, the XiR P6600 Series can help remaster their workplace and the way people collaborate.

## FIND THE RADIO THAT FITS

From the front desk to the factory dock, moving across campus or around the country, MOTOTRBO radios are connecting more people effortlessly and efficiently wherever they work. Information is instantaneous. Decision-making becomes easier. Safety gets stronger. Productivity increases. Service improves and customers are more satisfied.

Whether your customers want ultra-thin, rugged, or scalable portables or extra-tough mobiles with integrated Bluetooth® or industry-leading data applications, we have the right radio that fits their needs today and evolves with new features to address their requirements tomorrow.

Our radios are designed with a robust mix of features to increase workforce efficiency, productivity and safety – such as digital telephone patch for talking with a landline or mobile phone, emergency notification for use during critical situations, and intrinsically safe certifications for hazardous work environments.



## **INNOVATIVE FEATURES, INCREASED FUNCTIONALITY**

With MOTOTRBO's expanded portfolio of digital radios, you can match the right device to the right worker – in any industry, environment or position. So whether your personnel are supervising a production line or spearheading a special event, covering a crowded stadium or completing a repair, there's a MOTOTRBO with features made for them.

## **INTELLIGENT AUDIO**

MOTOTRBO's radio volume automatically adjusts to fit the environment's noise level. Now workers won't have to adjust radio volume to avoid missing a call in loud settings or disturb others when they move into quiet places.

## **INTEGRATED BLUETOOTH**

Bluetooth® audio provides voice communication with exceptional clarity and the freedom to move without wires. Ideal for employees who must communicate discreetly or whose jobs necessitate hands-free communication.

## **INTEGRATED GPS**

Track vehicles and people effortlessly with integrated location tracking. Unlike other GPS-capable radios, the MOTOTRBO module is incorporated in the handset so there's no additional equipment to attach, carry or maintain.

## **INSTANT TEXT MESSAGING**

Quickly and easily share information when voice isn't an option. Text messaging is ideal for sending messages that don't need an immediate response, or when voice conversation could be disruptive. Messages are easy to read with large, full color, high resolution screens.

## **WORK ORDER TICKET MANAGEMENT**

See what true efficiency can be. The SL1K portable eliminates a number of steps to read work order tickets, with a five-line display that presents data at a glance – saving time and eliminating multiple scrolls through screens.

# **MOTOTRBO MAKES IT HAPPEN**

Our expanded portfolio of MOTOTRBO radios, repeaters, accessories, data applications, software and services is remastering digital communications and redefining everything a two-way radio can be. Whether workers are making deliveries, managing guests, repairing roads or restoring power lines, the right radio can change the way employees collaborate and transform an enterprise.

# MOTOTRBO RADIOS

## MADE FOR THE WAY PEOPLE WORK

### SL1K: ULTRA-THIN AND LIGHT FOR THE ULTIMATE IN DISCREET COMMUNICATION

Optimize data applications, from enhanced work ticket management to text messaging, on a large, full-color screen that's easy to read. Experience integrated Bluetooth® data and Intelligent Audio, in a shape so sophisticated, it's unlike any radio you've ever used.

### XiR P8200 SERIES PORTABLE AND XiR M8200 SERIES: TRANSFORM BUSINESS WITH THE ORIGINAL HIGH-POWERED PORTABLES AND MOBILES

Get increased capacity, integrated data applications including GPS, text messaging and access to the industry's largest application developer program, exceptional voice quality and extended battery life.

### XiR P8600 SERIES AND XiR M8600 SERIES: TAKE YOUR ENTERPRISE EVEN FURTHER WITH FULL-FEATURED PORTABLES AND MOBILES

Enjoy exceptional voice and data communication with integrated Bluetooth audio and data, integrated GPS and text messaging, full color displays with day/night mode, and best-in-class audio that includes Intelligent Audio and customizable voice announcement.

### XiR P6600 SERIES: DIGITAL NOW WITHIN REACH

The XiR P6600 Series offers best-in-class audio in a scalable solution that allows users to migrate at their own pace. With analog/digital interoperability and the ability to expand features with a simple software upgrade, you can make the transition to digital at your own pace and budget.

	PORTABLE RADIOS				MOBILE RADIOS	
	SL Series	XiR P6600 Series	XiR P8200 Series	XiR P8600 Series	XiR M8600 Series	XiR M8200 Series
<b>GENERAL SPECS</b>						
Protocol	Digital	Analog/Digital	Analog/Digital	Analog/Digital	Analog/Digital	Analog/Digital
Max Power Output	2W UHF	4W UHF/5W VHF	4W UHF/5W VHF/2.5W 800 MHz	4W UHF, 5W VHF	40W UHF/45W VHF	40W UHF/45W VHF
Max Channel Capacity	1000	256	1000	1000	1000	1000
Display	5 line full color	2 line monochrome (XiR P6620)	2 line black and white (XiR P8620 / XiR P8268)	5 line full color (XiR P8668)	4 line full color (XiR M8668)	2 line black and white (XiR M8268)
Bluetooth Capability	Integrated Audio and Data	No	Audio Only Via Adapter	Integrated Audio and Data	Integrated Audio and Data	No
Integrated GPS	No	No	Yes	Yes	Yes	Yes
Intrinsically Safe	No	No	FM	FM	N/A	N/A
Expansion Card	Yes (Integrated)	No	Yes	Yes	Yes	Yes
IP Rating	IP54	IP55	IP57	IP57	IP54	IP54
<b>SOFTWARE FEATURES</b>						
Intelligent Audio	Yes	Yes	No	Yes	Yes	No
Text Messaging	Yes	No	Yes	Yes	Yes	Yes
Vibrate Alert	Yes	No	No	No	No	No
Covert Mode	Yes	No	No	No	No	No
Digital Telephone Patch	Future	No	Yes	Future	Future	Yes
Emergency Alarm	Yes	Future	Yes	Yes	Yes	Yes
Transmit Interrupt	Yes	Option	Yes	Yes	Yes	Yes
Enhanced Privacy	Yes	Option	Yes	Yes	Yes	Yes
Voice/Channel Announcement	Default and Customizable Files	Default and Customizable Files	No	Default and Customizable Files	Default and Customizable Files	No
<b>SYSTEM CONFIGURATIONS</b>						
Conventional	Yes	Yes	Yes	Yes	Yes	Yes
IP Site Connect	Yes	No	Yes	Yes	Yes	Yes
Capacity Plus	Yes	No	Yes	Yes	Yes	Yes
Linked Capacity Plus	Yes	No	Yes	Yes	Yes	Yes
Connect Plus	Future	No	Yes	Future	Future	Yes

# MOTOTRBO SYSTEMS

## THE BEST FIT FOR ANY BUSINESS FOOTPRINT

Want to increase the number of users on a system, extend coverage, connect employees in different locations or deliver voice and data without adding new frequencies? MOTOTRBO has a scalable solution that fits your customers' locations, facilities and workforce.

- **Conventional systems** combine the best of two-way radio with analog and digital technology to deliver integrated voice and data communication, increased capacity, enhanced features, exceptional voice quality and extended battery performance.
- **IP Site Connect** uses the Internet to extend MOTOTRBO's voice and data capabilities. Link up to 15 sites at geographically dispersed locations, create wide-area coverage or enhance coverage at a single site with physical barriers.
- **Capacity Plus** is the single site digital trunking solution that maximizes the capacity of MOTOTRBO. Use it for a high volume of voice and data communication and link over a thousand users at a single site without adding new frequencies.



- **Linked Capacity Plus** is an entry level, multi-site digital trunking system configuration for the MOTOTRBO platform. It leverages the high capacity of Capacity Plus, with the wide area coverage capabilities of IP Site Connect to keep your staff at various locations connected with an affordable high capacity, wide area trunking solution.

	CONVENTIONAL	IP SITE CONNECT	CAPACITY PLUS TRUNKING	LINKED CAPACITY PLUS TRUNKING
Number of Sites	1	Up to 15	1	5
Number of Users	100 per channel	100 per channel	Up to 1200	Up to 1200
Voice and Data Capacity	2 talk paths	2 talk paths	12 voice paths plus 24 additional dedicated data paths	12 voice paths and 6 data paths per site
Architecture	Conventional	Conventional-based	Shared-trunking	Shared-trunking
Transmit Interrupt	Yes	Yes	Yes	Yes
Digital Telephone Patch	Yes	Yes	Yes	Yes
Enhanced Privacy	Yes	Yes	Yes	Yes
Priority Calling	No	No	No	No
Call Queuing	No	No	No	No
Automatic Roaming	N/A	Yes	N/A	Yes
Dynamic Site Assignment	N/A	No	No	No
Site Restriction	N/A	No	N/A	No
Third Party Data Applications	Yes	Yes	Yes	Yes
Frequency Bands	UHF, VHF, 800/900 MHz	UHF, VHF, 800/900 MHz	UHF, VHF, 800/900 MHz	VHF, UHF, 800/900 MHz
Radio Compatibility	XiR P6600 Series XiR M8200 Series XiR M8600 Series XiR P8200 Series XiR P8600 Series SL1K (Digital, 403-470 MHz Only)	XiR M8200 Series XiR M8600 Series XiR P8200 Series XiR P8600 Series SL1K (Digital, 403-470 MHz Only)	XiR M8200 Series XiR M8600 Series XiR P8200 Series XiR P8600 Series SL1K (Digital, 403-470 MHz Only)	XiR M8200 Series XiR M8600 Series XiR P8200 Series XiR P8600 Series SL1K (Digital, 403-470 MHz Only)

# MOTOTRBO REPEATERS

**INCREASE USERS, EXTEND COVERAGE AND CONNECT WORKERS**

## XiR R8200 REPEATER

Delivers 100% continuous duty at 40W/UHF, 45W/VHF and 35W/800 MHz and two simultaneous voice or data paths in digital TDMA mode.

Operates in analog or digital mode and has an integrated power supply with connector for optional external DC battery backup.



XiR R8200		
<b>GENERAL SPECS</b>		
Frequency Supported (MHz)	VHF: 136-174 MHz VHF: 350-400 MHz UHF1: 403-470 MHz UHF2: 450-527 MHz	800 MHz 806-925 MHz (Rx) 851-870 MHz (Tx)
Power Output	VHF 1-25 W, 25-45 W UHF1 1-25 W, 25-40 W UHF2 1-40 W 350 MHz 1-40 W	800 MHz 10-35 W
Channel Spacing	12.5 kHz, 25 kHz 12.5 kHz (6.25e compliant)	12.5 kHz, 25 kHz (6.25e compliant) 12.5 kHz only for 900 MHz
Modes of Operation	Half-Duplex/Duplex	Half-Duplex/Duplex
<b>RECEIVER</b>		
Selectivity (TIA603D) (typical) 25 kHz/12.5 kHz	VHF: 80dB/50dB UHF: 75dB/50 dB	75 dB/50 dB
Intermod Rejection 25 kHz/12.5 kHz	75 dB/75 dB	75 dB/75 dB
Spurious Rejection	75 dB	75 dB
Analog Sensitivity 12 dB SINAD	0.30 uV (0.22 uV typical)	0.30 uV (0.22 uV typical)
Digital Sensitivity (5% BER)	0.30 uV (0.22 uV typical)	0.30uV (0.22 uV typical)
<b>TRANSMITTER</b>		
Rated Output Power	40 W	40 W
Intermodulation Attenuation	40 dB	40 dB
Adjacent Channel Power 25 kHz/12.5 kHz	70 dB/60 dB	70 dB/60 dB
Spurious Harmonics and Emissions	-76 dBc	-76 dBc
<b>FEATURES</b>		
Battery Backup	Yes - Trickle Charge	Yes - Trickle Charge
Analog Voting	No	No
Satellite Receiver	No	No
Wireline	Analog mode only via DC or TRC adapter	Analog mode only via DC or TRC adapter





A more detailed product comparison matrix is available on Motorola Online.

For more information on how to remaster the workforce with the right radio, visit [motorolasolutions.com/mototrbo](http://motorolasolutions.com/mototrbo).

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**MOTOTRBO™**  
DIGITAL REMASTERED.