



# MOTOTRBO™

PROFESSIONAL DIGITAL TWO-WAY RADIO REPEATERS





# ACCELERATE PERFORMANCE

## MOTOTRBO™ PROFESSIONAL DIGITAL TWO-WAY RADIO SYSTEM THE FUTURE OF TWO-WAY RADIO

Motorola is a company of firsts with a rich heritage of innovation. We continue to invent what's next—connecting people, delivering mobility and making technology personal. Versatile and powerful, MOTOTRBO combines the best in two-way radio functionality with digital technology, making it the ideal communication solution for your business. You get enhanced features, increased capacity, integrated data applications, exceptional voice quality and extended battery performance. This means more productive employees and lower operating costs for your business.

## THE DIGITAL DIFFERENCE

Two-way radio has been a successful analog communication solution for generations, and it proves itself every day in countless deployments around the world.

But in today's technologically advanced environment, a new platform is possible—a digital platform that breaks through to new levels of performance and productivity.

In the same way digital technology has transformed other media, it is now revolutionizing the way mobile professionals communicate. The time to take advantage of digital two-way radio technology is now.

## TAKE ADVANTAGE OF DIGITAL

Digital two-way radios offer several advantages over analog solutions, to name a few:

- Clearer audio to help assure messages are understood without background noise and static
- Integrated data applications such as text messaging, GPS-based location tracking, work order ticket management and much more
- 40% longer battery life for extended work shifts
- Increased capacity – twice the number of users for the price of one frequency license

## TDMA – THE BEST CHOICE

There are two primary digital radio technologies: Time-Division Multiple-Access (TDMA) and Frequency-Division Multiple-Access (FDMA).

While both digital technologies provide significant benefits over analog, TDMA is the best choice.

### TDMA technology delivers advantages over FDMA

- *Double your capacity per channel with less than half the infrastructure per channel*  
TDMA divides your existing channels into two time slots enabling you to double the number of users on your system or utilize data applications. A second call does not require a second repeater, resulting in lower costs for you, as you do not need to purchase, install and maintain additional infrastructure equipment.
- *Double your capacity without the hassle*  
TDMA provides two time slots on your existing licensed channels, doubling your capacity. There is no increased risk of interference, and there is no need for new licenses—simply amend your existing licenses to specify digital. Compatibility with all legacy radios working in 12.5 kHz analog channels is also maintained by TDMA.
- *Longer battery life*  
TDMA uses only half of the transmitter's capacity, resulting in longer battery life. During long work shifts or where productivity enhancing data applications place an increased power demand on the radio, this extended battery life is invaluable.
- *Advanced features*  
TDMA enables smart control features like "transmit interrupt" that makes it possible to interrupt lower priority communication so critical instructions can be delivered exactly when they're needed. And to help you maximize your infrastructure investment, TDMA can transmit voice and data on the same channel.

## STANDARDS BASED, FUTURE READY SOLUTION

MOTOTRBO is designed to comply with the globally recognized European Telecommunications Standard Institute (ETSI) Digital Mobile Radio (DMR) Tier 2 standard for professional two-way radio users.

DMR is widely backed by industry leading two-way radio manufacturers, and it is the most widely deployed digital mobile radio technology for professional radio users around the world. This open standard assures long-term stability and develops a community of manufacturers who build interchangeable equipment that can compete on features, benefits and price.

The DMR Association represents a collection of companies and organizations that manufacture DMR equipment, supply related products and service or support the standard in other ways. Motorola is an active member of the DMR Association so you can be assured that MOTOTRBO will always be a robust and future-ready digital radio solution.





## UNIQUE MOTOTRBO™ SYSTEM BENEFITS FOR ENHANCED PRODUCTIVITY

MOTOTRBO offers a robust, standards-based solution that can be tailored to meet your unique coverage and feature needs. This versatile portfolio provides a complete system of portable radios, mobile radios, repeaters, accessories, data applications, and services—a comprehensive communication solution for your business. MOTOTRBO:

- **Integrates voice and data** into one device to increase your operational efficiency and support integrated applications including MOTOTRBO Text Messaging Services. Also features an integrated GPS module for use with third-party location-tracking applications.
- Uses Time-Division Multiple-Access (TDMA) digital technology to provide **twice the calling capacity** (as compared to analog or FDMA radios) for the price of one frequency license. A second call doesn't require a second repeater, saving you equipment costs.
- In digital mode, provides **clearer voice communications** throughout the coverage area, as compared to analog radios, rejecting static and noise.
- Offers **enhanced battery life**. MOTOTRBO digital two-way portable radios can operate up to 40 percent longer between recharges compared to typical analog radios.
- Provides **easy migration** from analog to digital with the ability to operate in both analog and digital modes.
- **Enables additional functionality** including dispatch data, enhanced call signaling, basic and enhanced privacy-scrambling and option board expandability.
- Features the **transmit interrupt** suite - voice interrupt, remote voice dekey, emergency voice interrupt or data over voice interrupt - to help prioritize critical communication exactly when needed.

### EXTENDED COVERAGE WITH IP SITE CONNECT

Imagine using your MOTOTRBO digital two-way radio to speak instantly to a colleague in a plant on the other side of the world.

The IP Site Connect digital solution uses the Internet to extend the coverage of your MOTOTRBO communication system no matter where you may be located.

You can communicate easily among geographically dispersed locations located across the city, state or country. You can create wide area coverage and automatically roam from one coverage area to another with no manual intervention. Or you can simply enhance coverage at a single site like a high-rise building that contains physical barriers.

IP Site Connect enables you to extend the voice and data communication capability of your workforce far beyond what two-way radio has ever achieved before. This means dramatically improved customer service and increased productivity.

### INCREASED CAPACITY WITH CAPACITY PLUS SINGLE-SITE TRUNKING

As a scalable, single-site digital trunking solution, Capacity Plus expands the capacity of your MOTOTRBO communication system even further. Over a thousand radio users can quickly and efficiently share business-critical voice and data communication on the same system without having to add new frequencies.



## MOTOTRBO INTEGRATED DATA ENABLES ADVANCED APPLICATIONS

### ONE DEVICE FOR VOICE AND DATA

In addition to voice, MOTOTRBO supports text messaging, GPS location tracking capability, and custom applications from Motorola's Application Developer Program such as telephony, dispatch, work order ticket solutions and much more. MOTOTRBO keeps your employees connected to the information they need to be more efficient—with the convenience of one device.

### CONVENIENT AND DISCREET MOTOTRBO TEXT MESSAGING

Text messaging enables your employees to quickly and easily share information when voice communication isn't practical. It is ideal in loud environments, for delivering messages that don't need an immediate response, or when voice communication could be disrupting to guests, students, customers, or patients.

MOTOTRBO text messaging communicates between radios, radios and dispatch systems, and even radios to any email capable device.

### TRACK VEHICLES AND PEOPLE WITH INTEGRATED GPS

Every MOTOTRBO radio has an integrated GPS module to use for tracking people outside your facility, vehicles or other remote assets operating in your coverage area. Unlike other GPS capable radios, MOTOTRBO's module is integrated into the handset so there is no clumsy additional equipment to attach, carry or maintain.

This enables you to better manage your mobile work force and quickly respond to incidents by locating the nearest employee and dispatching them to the scene. It also makes it easier to manage your fleet so you can make deliveries and drive routes more efficiently.

For utility crews, taxi services, the hospitality industry, and countless other industries, the ability to see where your vehicles and employees are located with just a glance is invaluable. Your employees will be far more efficient and your customer service can improve significantly.

### CUSTOM DATA APPLICATIONS WITH MOTOROLA'S APPLICATION DEVELOPER PROGRAM

MOTOTRBO offers an optional expansion card which can accommodate custom data applications that adapt the radios to support your specific business tasks.

You can, for example, work with third-party developers or your own IT staff to extend the functionality of MOTOTRBO using Motorola's Application Developer Program.

With this development tool you can create unique applications such as a program to help you manage your work order tickets, to integrate your dispatch and billing systems, to link your MOTOTRBO radios to your telephone system, or to connect to email.

MOTOTRBO is a powerful tool for communication with the flexibility to adapt to your work force, your customers and your business.

# MOTOTRBO™ SYSTEM COMPONENTS AND BENEFITS



## XPR™ 8300 / XPR™ 8380 REPEATER

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>1 100% continuous duty at 40W/UHF, 45W/VHF and 35W/800 MHz.</li><li>2 Supports two simultaneous voice or data paths in digital TDMA mode.</li><li>3 Integrated power supply with connector for optional external DC battery backup.</li><li>4 Operates in analog or digital mode—bright, clear, colored LEDs indicate mode.</li></ul> | <ul style="list-style-type: none"><li>5 LEDs clearly indicate transmit and receive modes in both channel slots.</li><li>6 Rack- or wall-mountable—compatible with desktop housing as well.</li><li>7 Sturdy handles make installation and handling easier.</li></ul> |
|---|--|

## REPEATER STANDARD PACKAGE

- Repeater
- 120V AC Power Cord
- Two-year Standard Warranty

## ADDITIONAL FEATURES

- Automated battery back-up (battery sold separately)
- Seamless site roaming with IP Site Connect\*
- Increased voice and data capacity with Capacity Plus single-site trunking\*
- Dynamic mixed mode capability allows for automatic switching between analog and digital mode
- Repeater diagnostic and control software provides remote or local site monitoring

\*Digital mode only

# MOTOTRBO REPEATER SPECIFICATIONS



VHF/UHF

XPR 8300

## General Specifications

	XPR 8300		
	VHF	UHF Band I	UHF Band II
Channel Capacity	1		
Typical RF Output: Low Power High Power	1-25 W 25-45 W	1-25 W 25-40 W	— 1-40 W
Frequency	136-174 MHz	403-470 MHz	450-512 MHz
Dimensions (HxWxL)	5.22 x 19 x 11.67 in (132.6 x 482.6 x 296.5 mm)		
Weight	31 lbs (14 kg)		
Voltage Requirements	100-240 V AC (13.6 V DC)		
Current Drain During Standby: Low Power High Power	1 A (1 A DC typical) 1 A (1 A DC typical)		
Current Drain During Transmit: Low Power High Power	3 A (7.5 A DC typical) 4 A (12 A DC typical)		
Operating Temperature Range	-30°C to +60°C		
Max Duty Cycle	100%		
FCC Description	1-25 W: ABZ99FT3026 25-45 W: ABZ99FT3025	1-25 W: ABZ99FT4026 25-40 W: ABZ99FT4025	1-40 W: ABZ99FT4027
IC Description	1-25 W: 109AB-99FT3026 25-45 W: 109AB-99FT3025	1-25 W: 109AB-99FT4026 25-40 W: 109AB-99FT4025	1-40 W: 109AB-99FT4027

## Receiver

	XPR 8300		
	VHF	UHF Band I	UHF Band II
Frequencies	136-174 MHz	403-470 MHz	450-512 MHz
Channel Spacing	12.5 kHz / 25 kHz*		
Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.5 ppm		
Analog Sensitivity (12 dB SINAD)	0.30 uV 0.22 uV (typical)		
Digital Sensitivity	5% BER: 0.3 uV		
Intermodulation (TIA603C)	78 dB		75 dB
Adjacent Channel Selectivity: TIA603 TIA603C	65 dB @ 12.5 kHz, 80 dB @ 25 kHz* 50 dB @ 12.5 kHz, 80 dB @ 25 kHz*		65 dB @ 12.5 kHz, 75 dB @ 25 kHz* 50 dB @ 12.5 kHz, 75 dB @ 25 kHz*
Spurious Rejection	80 dB		75 dB
Audio Distortion @ Rated Audio	3% (typical)		
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz*		
Audio Response	TIA603C		
Conducted Spurious Emission	-57 dBm		

## Transmitter

	XPR 8300		
	VHF	UHF Band I	UHF Band II
Frequencies	136-174 MHz	403-470 MHz	450-512 MHz
Channel Spacing	12.5 kHz / 25 kHz*		
Frequency Stability (-30° C, +60° C, +25° C Ref.)	+/- 0.5 ppm		
Power Output: Low Power High Power	1-25 W 25-45 W	1-25 W 25-40 W	— 1-40 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz*		
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz*		
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz		
Adjacent Channel Power (TIA603C)	60 dB @ 12.5 kHz 70 dB @ 25 kHz*		
Audio Response	TIA603C		
Audio Distortion	3%		
FM Modulation	12.5 kHz: 11K0F3E 25 kHz*: 16K0F3E		
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE		
Digital Vocoder Type	AMBE+2™		
Digital Protocol	ETSI TS 102 361-1, -2, -3		

\*25 kHz will not be available on new equipment in the U.S. after 1/1/2011.

Specifications subject to change without notice. All specifications shown are typical. Repeater meets applicable regulatory requirements. Version 9 03/10

# MOTOTRBO™ REPEATER SPECIFICATIONS



800 MHz

XPR™ 8380

## General Specifications

	XPR 8380
	800 MHz
Channel Capacity	1
Typical RF Output:	-
Low Power	10-35 W
High Power	
Frequency	806-870 MHz
Dimensions (HxWxD)	5.22 x 19 x 11.67 in (132.6 x 482.6 x 296.5 mm)
Weight	31 lbs (14 kg)
Voltage Requirements	100-240 V AC 47-63 Hz (13.6 V DC)
Current Drain During Standby:	1.0 A (100 V AC) 0.5 A (240 V AC) 1.0 A (typical)(13.4 V DC)
Current Drain During Transmit:	
Low Power	3.0 A (100 V AC) 1.5 A (240 V AC) 10 A (typical)(13.4 V DC)
High Power	4.0 A (100 V AC) 1.8 A (240 V AC) 12 A (typical)(13.4 V DC)
Operating Temperature Range	-30°C to +60°C
Max Duty Cycle	100%
FCC Description	10-35 W: AB299FT5029
IC Description	10-35 W: 109AB-99FT5029

## Receiver

	XPR 8380
	800 MHz
Frequencies	806-825 MHz
Channel Spacing	12.5 kHz/25 kHz
Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.5 ppm
Analog Sensitivity (12 dB SINAD)	0.22 uV (typical)
Digital Sensitivity	5% BER: 0.28 uV
Intermodulation (TIA603C)	78 dB
Adjacent Channel Selectivity:	
TIA603	65 dB @ 12.5 kHz, 75 dB @ 25 kHz
TIA603C	50 dB @ 12.5 kHz, 75 dB @ 25 kHz
Spurious Rejection (TIA603C)	75 dB
Audio Distortion @ Rated Audio	3% (typical)
Hum and Noise	-45 dB @ 12.5 kHz -45 dB @ 25 kHz
Audio Response	TIA603C
Conducted Spurious Emission (TIA603C)	-57 dBm

## Only the following frequencies are supported by the XPR 8380

Band	Receive		Transmit	
	Receive	Receive	Transmit	Transmit
800 MHz	806.0125	821.0125	851.0125	866.0125
	806.5125	821.5125	851.5125	866.5125
	807.0125	822.0125	852.0125	867.0125
	807.5125	822.5125	852.5125	867.5125
	808.0125	823.0125	853.0125	868.0125
	809.000 - 820.9875	824.000 - 825.000	854.000 - 865.9875	869.000 - 870.000



## Transmitter

	XPR 8380
	800 MHz
Frequencies	851–870 MHz
Channel Spacing	12.5 kHz / 25 kHz
Frequency Stability (-30° C to +60° C)	+/- 0.5 ppm
Power Output: Low Power High Power	10W 35 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz
Digital Modulation Fidelity (4FSK)	FSK Error 5% FSK Magnitude 1%
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz
Adjacent Channel Power (TIA603C)	-50 dB @ 12.5 kHz -60 dB @ 25 kHz
Audio Response	TIA603C
Audio Distortion	3%
FM Modulation	12.5 kHz: 11K0F3E 25 kHz: 16K0F3E
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI TS 102 361-1 ETSI TS 102 361-2 ETSI TS 102 361-3

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## MOTOTRBO SERVICE OFFERINGS

### SUBSCRIBER REPAIR

Managing the in-house repair and maintenance of your subscriber radios takes a dedicated staff of technicians, as well as an ongoing investment in diagnostic equipment, repair tools, and the technical training to keep up to speed on the latest technology. Motorola has made that investment and can help you easily and cost effectively keep your radios in top operating condition to ensure optimal efficiency and productivity.

Our subscriber repair service offerings allow you to budget for your repairs, preventing unexpected service and maintenance costs. Repair Service Advantage (RSA) and Repair Service Advantage Comprehensive (RSA Comprehensive) repairs receive priority service and meet committed cycle times.

#### • Repair Service Advantage (RSA):

Repair Service Advantage is a post-warranty service offering that extends the service coverage of Motorola portable or mobile subscriber radios. RSA can be purchased as an option to new radio purchases and is available in 1, 2 or 3-year increments. (U.S. only)

#### • Repair Service Advantage Comprehensive:

Motorola portable and mobile radios are designed to take a lot of abuse. They are built to withstand the chaos and conditions inherent in a fire or natural disaster response and recovery effort. But even the best radios are subject to occasional 'above and beyond' wear and tear. That's why Motorola Subscriber Repair Services has introduced RSA Comprehensive.

RSA Comprehensive offers all the protection of a standard RSA support plan with even more coverage that includes chemical, liquid and other physical damage to your Motorola portable and mobile subscriber radios. RSA Comprehensive is available as an option to the radio purchase for 3 years of coverage. (U.S. only, not available on repeaters)

#### • Extended Warranty:

In addition to the 2-year standard warranty, Extended Warranty is available for a total of 3 or 5 year coverage. (Canada only)

# MOTOTRBO™ SYSTEM COMPONENTS AND BENEFITS



## MTR3000 UHF BASE STATION / REPEATER

- 1 100% continuous duty cycle (Integrated 100W Power Amp)
- 2 Supports two simultaneous voice or data paths in digital TDMA mode with 16 channels\*
- 3 Integrated AC/DC power supply
- 4 Operates in analog or digital mode
- 5 LEDs clearly indicate transmit and receive modes and overall station status
- 6 Rack-or-cabinet mountable
- 7 Front access speaker port for serviceability ease
- 8 Front access microphone port for routine service
- 9 Standard USB port for station configuration

### BASE STATION / REPEATER STANDARD PACKAGE

- MTR3000 Base Station / Repeater
- AC Power Cord
- MOTOTRBO Repeater Installation Guide
- Two-year Standard Warranty

### MTR2000 UPGRADE

For systems currently using the high power MTR2000 base station/repeater, a simple MTR3000 upgrade kit is available so the station can operate in a MOTOTRBO system while allowing you to leverage your current investment.

### MTR2000 UPGRADE STANDARD PACKAGE

- Upgrade hardware with pre-loaded software
- MOTOTRBO Quick Start Guide
- MOTOTRBO Installation & User Guide
- Two-year Standard Warranty

\*Digital mode only

### ADDITIONAL FEATURES

- Convenient access to station ports, shortening installation and maintenance time
- 12.5 or 25 kHz programmable channel spacing
- 6.25e Compliant
- Integrated 100W Power Amplifier and AC/DC Power Supply minimizes cabling, rack space, expense, and overall complexity
- Software based design simplifies feature upgrades
- Power supply functions over a wide range of voltages
- Supports MOTOTRBO Capacity Plus single site trunking without a separate hardware controller\*
- Seamless site roaming with IP Site Connect\*
- Repeater diagnostic and control software provides remote or local site monitoring
- Automated battery back up (charger sold separately)
- Restriction of Hazardous Substances (RoHS) compliant

# MTR3000 BASE STATION / REPEATER SPECIFICATIONS

## General Specifications

		T3000A	T2003A - Upgrade kit for MTR2000 stations
Number of Frequencies		Up to 16	
Modulation		FM & 4FSK	
Frequency Generation		Synthesized	
Channel Spacing	Analog Digital	12.5 kHz, 25 kHz* 12.5 kHz (6.25e compliant)	
Mode of Operation		Semi-duplex / Duplex	
Temperature Range		-30°C to +60°C	
Antenna Connectors		Transmit and Receive, Type "N" Female	
AC Operation		85-264 VAC, 47-63 Hz	
DC Operation		28.6 VDC (25.7-30.7 VDC full rated output power)	
		<b>Dimensions</b>	<b>Weight</b>
Base Station Repeater		5.25 x 19 x 16.5 in. (133 x 483 x 419 mm)	40 lbs (19 kg)

## Receiver

		T3000A	T2003A - Upgrade kit for MTR2000 stations
Frequency		403-470, 450-524 MHz	403-470 MHz
Selectivity (TIA603)	25 kHz* 12.5 kHz		80 dB (86 dB typical) 75 dB (78 dB typical)
Selectivity (TIA603D)	25 kHz* 12.5 kHz		75 dB (85 dB typical) 45 dB (60 dB typical)
Analog Sensitivity 12 dB SINAD			0.30 uV (0.22 uV typical)
Digital Sensitivity 5% BER			0.30 uV (0.20 uV typical)
Signal Displacement Bandwidth 12.5 / 25 kHz			1 kHz / 2 kHz
Intermodulation Rejection 12.5 and 25 kHz			85 dB
Spurious and Image Response Rejection			85 dB (typical 95 dB)
Audio Response			+1,-3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output
Audio Distortion			Less than 3% (1.5% typical) at 1000 Hz, 60% RSD
Line Output			330 mV (RMS) @ 60% RSD
FM Hum and Noise (750µs de-emphasis)	25 kHz* 12.5 kHz		50 dB nominal 45 dB nominal
RF Input Impedance			50 Ohms

## Transmitter

		T3000A	T2003A - Upgrade kit for MTR2000 stations
Frequency		403-470, 470-524 MHz	403-435, 435-470 MHz
Power Output (Continuous Duty)		8-100 watts	25-100 watts
Electronic Bandwidth			Full Band
Output Impedance			50 Ohms
Intermodulation Attenuation			55 dB
Maximum Deviation (RSD)	25 kHz* 12.5 kHz		±5 kHz ±2.5 kHz
Audio Sensitivity			60% RSD @ 80 mV RMS
Spurious and Harmonic Emissions Attenuation			85 dB
FM Hum and Noise (750 µs de-emphasis)	25 kHz* 12.5 kHz		50 dB nominal 45 dB nominal
Frequency Stability (for temperature and aging variation)			1.5 PPM/External Ref (optional)
Audio Response			+1,-3 dB from 6 dB per octave pre-emphasis; 300-3000 Hz referenced to 1000 Hz at line output
Audio Distortion			Less than 3% (1% typical) at 1000 Hz; 60% RSD
Emission Designators			FM Modulation: 12.5 kHz: 11K0F3E; 25 kHz*: 16K0F3E 4FSK Modulation: 12.5 kHz - Data Only: 7K60FXD; 12.5 kHz - Data & Voice: 7K60FXE
Digital Vocoder Type			AMBE +2™ Vocoder
Digital Protocol			ETSI 102 361-1, -2, -3

## UHF Input Power

	AC Line 117 Volts / 220 Volts	28 VDC D/C Battery Revert, Neg. Gnd.
100 W Standby	0.4A/0.2A	0.8A
100 W Transmit	3.3A/1.8A	11.5A

## FCC Type Acceptance

Frequency Range in MHz	Type	Power Output in Watts	US Type Acceptance Number
403-470	Transmitter	8-100	ABZ89FC4823
403-470	Receiver	N/A	ABZ89FC4824
470-524	Transmitter	8-100	ABZ89FC4825
450-524	Receiver	N/A	ABZ89FC4826

\*25 kHz will not be available on new equipment in the U.S. after 1/1/2011.  
Specifications subject to change without notice. All specifications shown are typical.  
Repeater meets applicable regulatory requirements. Version 1 03/10

Industry Canada Approval: ICID 109AB-T3000; IC model T3000-UHFRR1  
Specifications per TIA/EIA 603D unless otherwise noted  
Product meets ETSI 300-086 & ETSI 300-113

CE Certification Pending  
UL Listed  
RoHS compliant



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