MOTOTRBO™
RADIO ACCESSORIES
PERFORMANCE THAT LIVES UP TO ITS PROMISE
Your people are on the job, in the field, on the factory floor, moving across campus or throughout the city. Whether they’re moving freight or providing security, repairing roads or restoring power lines, you need to keep them all connected, everywhere they go.

How do you equip them with technology that is easy to use? Improve their performance and increase productivity? The answer is as simple, seamless and scalable as MOTOTRBO.

Our robust, future-ready, standards-based solution is so flexible and versatile, it can be customized to fit your unique business, coverage and application needs. MOTOTRBO is the complete business-essential solution with portable radios, mobile radios, repeaters, accessories, data applications and services.
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 offers a multitude of features and benefits. TDMA digital technology provides twice the calling capacity (as compared to analog or FDMA radios) for the price of one frequency license. Integrated voice and data capabilities support integrated applications including MOTOTRBO Text Messaging Services and an integrated GPS module is included for use with your third-party location tracking applications. Also, Motorola’s Application Developer Program accommodates custom data applications so that you can adapt radios to support your specific business tasks.

And digital voice processing plus enhanced call signaling can help to assure faster and more reliable calls. Other features such as enhanced battery life, IP57 immersibility for portables, and the ability to operate in both analog and digital modes make it easy and affordable to adapt MOTOTRBO for the unique needs of your operation, and migrate to a digital two-way radio platform at your own pace.

Whether you’re working in harsh conditions, noisy environments, long shifts or looking for discreet communication, MOTOTRBO accessories and batteries stand up to the task and stand out in the field. We designed and developed a complete portfolio of solutions with this exclusive, leading-edge technology. Our accessories and batteries are specially designed to perform optimally with our portable and mobile radios.

**MOTOTRBO PORTABLES**
- XPR 6550/6580 Display Portable Radios
- XPR 6350/6380 Non-Display Portable Radios
- XPR 6580 I.S. CSA Display Portable Radio (sold in Canada only)

**MOTOTRBO MOBILES**
- XPR 4550/4580 Display Mobile Radios
- XPR 4350/4380 Numeric Display Mobile Radios

**MOTOTRBO REPEATERS**
- XPR 8300/8380/8400, MTR 3000 Repeater
IMPRES SMART AUDIO ACCESSORIES

Our IMPRES Smart Audio is a Motorola-exclusive solution that provides exactly what businesses and agencies seek: two-way audio quality that’s loud, clear and intelligible in digital and analog modes.

EXCEPTIONALLY CLEAR AUDIO
IMPRES audio accessories communicate with the radio to help suppress ambient noise, improve voice intelligibility and amplify loudness – even in noisy situations and difficult weather. So if you’re a security officer with an IMPRES remote speaker microphone clipped to a lapel or a hospitality manager wearing an earpiece, you can carry on a conversation with clarity, simplicity and certainty.

STOP ADJUSTING VOLUME
Are your employees on surveillance and discreet conversation is expected? Trying to talk above the roar of the crowd in a stadium? When they need to speak quietly or at normal volume but not directly into the microphone, enhanced Audio Gain Capability (AGC) can make all the difference. This IMPRES feature detects changes in voice levels and automatically increases or decreases microphone gain so the receive end doesn’t have to adjust volume levels repeatedly.

CUSTOMIZE TO YOUR WORKSTYLE
IMPRES accessory buttons can be programmed with “shortcuts” in addition to the programmable buttons available on your radio. You can use your accessory to access additional important features, such as private calls, with just a touch.

IMPRES SMART ENERGY SYSTEM
For the line worker on a long shift or the public works officer laboring overtime to restore power, the job stops when their radio stops operating. Our innovative IMPRES battery charging and reconditioning system streamlines and automates battery maintenance. It draws on our exclusive technology to communicate between your battery and charger to help lengthen battery life and extend talk time.

AUTOMATES BATTERY MAINTENANCE
You want to be sure you get the most out of every battery by maximizing its life. With IMPRES you can, because it automates battery maintenance. IMPRES integrates reconditioning capability into the charger along with the means to evaluate battery usage and determine the best time to recondition it. By automating maintenance, IMPRES optimizes your battery’s life.

ELIMINATES OVERCHARGING
IMPRES batteries can be left in their IMPRES chargers for extended periods without heat damage from the charger. If radios are accidentally left in the charger – overnight, over a weekend or longer – there’s no worry about shortening your battery’s life. Because the IMPRES charger automatically monitors battery capacity batteries are safely charged to the right capacity and always ready to go.

BETTER DATA FOR BETTER DECISIONS
IMPRES batteries store critical usage information so you don’t have to. Each two-line IMPRES charger display presents key data at a glance, so you can make informed decisions about battery replacement. Data includes key information such as: actual battery capacity, time remaining to complete charging, and each battery’s unique serial number. If you’re operating a large fleet of batteries, IMPRES battery data reader is a valuable diagnostic tool to evaluate individual IMPRES batteries. IMPRES Battery Fleet Management collects and consolidates that data automatically, so you can quickly and easily identify when batteries need to replaced.

EXTENDED WARRANTY
When you use MOTOTRBO™ IMPRES batteries exclusively with IMPRES chargers, you can count on an 18-month capacity warranty coverage – six months longer than Motorola standard batteries.

TESTED TOUGH AND PROVEN TOUGH
IMPRES or any other Motorola batteries are Proven Tough. Time after time, in lab test after test – for Drop, Vibration and ESD (Electrostatic Discharge) – they withstand shocks, knocks, drops and shakes and outperform the leading brands. If your radio gets banged on a ride, rattled by heavy equipment or shocked by static electricity, you can depend on IMPRES batteries to stay true and stand tough.

We created our patented IMPRES technology as an integral part of our two-way radio audio accessories, batteries and chargers. Users who rely on IMPRES Smart Audio and Smart Energy systems call them innovative and indispensable. We call IMPRES the intelligent way to communicate – offering enhanced performance and exceptional capabilities between your radio and accessories, your battery and charger, your workforce and workplace.

HEAR CLEARER. TALK LONGER. WORK SMARTER WITH IMPRES™ TECHNOLOGY.
WINDPORTING REMOTE SPEAKER MICROPHONES
The windporting feature dramatically lessens background noise from high winds and other severe weather conditions. The same technology helps prevent water from clogging the microphone port and distorting transmit audio, ensuring a user’s confidence of clear communication.

NOISE-CANCELLING REMOTE SPEAKER MICROPHONE
This remote speaker microphone features a noise cancelling directional microphone which helps eliminate ambient noise and is beneficial in high noise environments. It also has a large housing for users operating with gloves or in rugged environments.

IMPRES PUBLIC SAFETY MICROPHONES (PSM)
All PSMs include an emergency button and volume control. The PSM Antenna is sold separately and are listed in the antenna section of this catalog. PSMs are not compatible with the XPR 6380 and XPR 6580.

RSM AND PSM ACCESSORIES
These accessories allow users to receive audio discreetly. Any of the above microphones that have a 3.5mm audio jack are compatible with the following earpieces:

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2 PMMN4067 when connected with a XPR 6580 I.S. radio model and properly equipped with the battery NNTN7789 is certified for permitted use for Ex ib IIC T4, Class II, Groups E, F, G and Class III, and DIP A21 TA 110º C. PMMN4067 is sold in Canada only.
SURVEILLANCE AUDIO

RECEIVE-ONLY SURVEILLANCE KITS
Simple, cost-effective solution when discreet communications is needed. Privately receive messages with the earpiece.

- RLN58781: Receive-Only Earpiece, black
- RLN58791: Receive-Only Earpiece, beige

IMPRES 2-WIRE AND 3-WIRE SURVEILLANCE KITS
Allows you to both transmit and receive discreet communications. All kits include one programmable-button for quick and easy access to critical radio features.

- 2-Wire kits include one wire for receiving and one wire for the microphone.
- 3-Wire kits include one wire for receiving, one wire for the microphone and one wire for the push-to-talk.

- PMLN50971: IMPRES 3-Wire Surveillance Kit, black
- PMLN51061: IMPRES 3-Wire Surveillance Kit, beige
- PMLN51111: IMPRES 3-Wire Surveillance Kit with Translucent Tube, black
- PMLN51121: IMPRES 3-Wire Surveillance Kit with Translucent Tube, beige

NOISE KITS
Provide extra comfort and noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to the surveillance accessory to provide flexibility and comfort, while clothing clip prevents accessory from being pulled from the ear. For optimal performance, extra loud earphones are recommended for noise kits.

- RLN5886: Low Noise Kit, includes 1 clear rubber eartip. For low-noise environments (does not provide hearing protection)
- RLN5887: Extreme Noise Kit, includes 2 foam earplugs. For high-noise environments (Noise Reduction = 24dB)

REPLACEMENT ACCESSORIES


CLEAR COMFORTABLE EARPIECES
The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It’s made of easy-to-clean, chemically-inert, hypo-allergenic material. Compatible with all Motorola Noise and Surveillance Kits.

- RLN4760: Small Custom Earpiece - Right Ear
- RLN4761: Medium Custom Earpiece - Right Ear
- RLN4762: Large Custom Earpiece - Right Ear
- RLN4763: Small Custom Earpiece - Left Ear
- RLN4764: Medium Custom Earpiece - Left Ear
- RLN4765: Large Custom Earpiece - Left Ear

HEADSETS

**IMPRES TEMPLE TRANSDUCER**
This headset allows you to receive audio without covering the ear, allowing users to have their ears open to all external sounds such as warning and fire alarms, machinery and outside traffic. You can also wear hearing protection and still use this Temple Transducer since you are hearing through bone vibrations on your temple.

**HEAVY DUTY HEADSET**
Designed for rugged use in noisy environments where hearing protection is required. This dual-muff headset includes flexible noise-canceling boom microphone with a push-to-talk switch located on the earcup. This can be worn with or without a helmet.

**LIGHTWEIGHT HEADSET**
Provides high-clarity, hands-free discreet two-way communication, while maintaining the comfort necessary for extended wear in moderate noise environments. This single-muff adjustable headset comes with rotating boom microphone for left or right positioning. Includes an in-line push-to-talk button.

**OPERATIONS CRITICAL WIRELESS**
Ruggedly reliable and Bluetooth® compatible, our progressive portfolio ranges from lightweight, high-performing earpieces to a wireless push-to-talk (PTT) you can put in a pocket and link to any earpiece.

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HEADSETS

IMPRES EAR MICROPHONE
Lightweight earpiece that picks up sound through bone vibration. A built-in bone conduction microphone and receiver eliminate the need for a boom microphone. A programmable button is available for quick access to radio features.

CARRY ACCESSORIES

CARRY CASES
Carrying cases are available in sizes designed to fit your radio and battery and permit audio to be heard clearly. Belt loop and nylon cases feature “D” rings that allow the cases to be attached to a carrying strap. Swivel model cases secure to a belt loop and allow the case to swing freely from side to side. The swivel latch system also allows the radio and case to be removed from the belt loop by simply inverting the case and lifting it up and out of the belt loop.

MOTOTRBO WITH DISPLAY

PMLN5015
Nylon Case with 3 Inch Fixed Belt Loop

PMLN5021
Hard Leather Case with 3 Inch Fixed Belt Loop

NON-DISPLAY MOTOTRBO

PMLN5019
Hard Leather Case with 2.5 Inch Swivel Belt Loop

PMLN5020
Hard Leather Case with 3 Inch Swivel Belt Loop

PMLN5024
Nylon case with 3 Inch fixed belt loop

PMLN5030
Hard Leather Case with 3 Inch Fixed Belt Loop

MOTOTRBO CSA CARRYING CASES

PMLN5028
Hard Leather Case with 2.5 Inch Swivel Belt Loop

PMLN5029
Hard Leather Case with 3 Inch Swivel Belt Loop

PMLN5066
Hard Leather Case with 3 Inch Swivel Belt Loop for Display Models

PMLN5067
Soft Leather Case with 3 Inch Swivel Belt Loop for Display Models
CARRY ACCESSORIES

BELT LOOPS AND BELTS

- **PMLN5022** 2.5 Inch Leather Swivel Belt Loop
- **PMLN5023** 3 Inch Leather Swivel Belt Loop
- **PMLN5610** 2.5 Inch Leather Swivel Belt Loop (CSA)
- **4200865599** 1.75 Inch Wide Leather Belt

BELT CLIPS

- **PMLN4651** Spring Action 2 Inch Belt Clip
- **PMLN4652** Spring Action 2.5 Inch Belt Clip
- **PMLN5134** Spring Action 2.5 Inch Belt Clip (CSA)

CARRYING STRAP

- **NTN5243** Adjustable, Black Nylon Carrying Strap. Attaches to D-ring on cases.

WATERPROOF BAG AND MORE

- **HLN9985** Waterproof Bag with Large Strap
- **RLN4295** Small Clip, Epaulet Strap

CARRY PACKS

UNIVERSAL CHEST PACK

Motorola Original Universal Chest Pack protects the radio and provides the freedom from holding it during standby communication mode. The Motorola Universal Chest Pack fits any radio.

- **HLN6602** Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch

BREAK-AWAY CHEST PACK

All the features of the original Universal Chest Pack (HLN6602) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

- **RLN4570** Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch

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2 Carry Cases PMLN5606, PMLN5608, PMLN5607 and PMLN5609 when used with a XPR-6580 I.S. radio model and properly equipped with the battery NNTN7789 is certified for permitted use for Ex ib IIC T4, Class II, Groups E, F, G and Class III, and DIP A21 TA 110º C. These carry cases are sold in Canada only.


## CARRY PACKS

### RADIOPAK™

The RadioPAK is lightweight and comfortable. Worn around the waist, it keeps radios and phones at hand. It features a separate 6 x 8 inch zippered pouch for other on-the-job necessities. Adjustable woven nylon belt fits both men and women.

- **RLN4815** RadioPAK Radio Utility Case
- **4280384F89** RadioPAK Extension Belt for waists larger than 40 inches

## BATTERIES

### IMPRES BATTERIES

You want to be sure to get the most out of every battery by maximizing its life. With IMPRES you can, because it automates battery reconditioning, adapting the intervals to each battery’s usage pattern.

- **PMNN4066** IMPRES Li-ion 1500 mAh, Submersible Battery - IP57 Rating
- **PMNN4067** IMPRES Li-ion 1400 mAh, Submersible Battery - IP57 Rating, Intrinsically Safe (FM)
- **PMNN4077** IMPRES Li-ion 2150 mAh, Submersible Battery - IP57 Rating
- **NNTN77892** IMPRES Li-ion 1750 mAh Submersible Battery - IP57 Rating, Intrinsically Safe (CSA)
- **PMNN4065** NiMH 1300 mAh, Submersible Battery - IP57 Rating

### MOTOROLA ORIGINAL BATTERY

This battery is ruggedly designed for lasting durability and is system tested with Motorola two-way radios to ensure optimum performance. NiMH chemistry offers an attractive combination of capacity, weight and cost.

- **NNTN77892** IMPRES Li-ion 1750 mAh Submersible Battery - IP57 Rating, Intrinsically Safe (CSA)
- **PMNN4065** NiMH 1300 mAh, Submersible Battery - IP57 Rating

## CHARGERS

### IMPRES CHARGERS

This smart energy system automatically reconditions IMPRES batteries based on actual usage, keeping them in peak condition. Talk-time and cycle life are optimized and the need for manual maintenance programs is eliminated. Its advanced conditioning features allow batteries to be safely left on the charger for extended periods of time without incurring damaging heat build-up which can decrease battery cycle life. In addition, batteries left in the charger are kept fully charged so they are always ready when needed. This rapid-rate, tri-chemistry charging system will also charge compatible non-IMPRES batteries.

- **WPLN4232** IMPRES Single-Unit Charger, 120 Volt
- **WPLN4212** IMPRES Multi-Unit Charger, 120 Volt

### IMPRES MULTI-UNIT CHARGER WITH DISPLAY

Charger Displays provide powerful, “real time” information for IMPRES batteries, including current charge status, battery mAh, and voltage. Readout displays battery kit number, serial number and chemistry, 120 Volt.

- **NLN7967** Wall Mount for Multi-Unit Chargers
- **WPLN4219** IMPRES Multi-Unit Charger with Displays

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2. XPR 6580 U.S. radio models, when properly equipped with the battery NNTN7789 are certified for permitted use for Ex-ib IIC T4, Class II, Groups E, F, G, and Class III, and DIP A21 TA 110º C. This battery is sold in Canada only.
**MOTOROLA TRAVEL CHARGER**

Its small compact design allows the radio to be used while rapid charging in the charger base. Unit includes a voltage regulated vehicular charger adapter, custom charger base, mounting bracket and coil cord.

**IMPRES BATTERY FLEET MANAGEMENT SOFTWARE**

The industry exclusive IMPRES Battery Fleet Management software remotely downloads key IMPRES battery data through existing IMPRES chargers for more effective management of the IMPRES battery and charger fleet. These reports provide key battery and charger data such as when IMPRES batteries are nearing end of life, identifying lost batteries and ensuring IMPRES chargers are appropriately distributed and use is maximized.

**IMPRES BATTERY READER**

The industry exclusive IMPRES Battery Reader provides IMPRES battery users the ability to access charging, reconditioning and key usage data that can affect overall battery performance. By keeping batteries in peak condition, talk time and cycle life are optimized, reducing battery replacement. Package includes IMPRES Battery Reader (fits XTS batteries), System Software, USB Cord, Adapter inserts for APX, MOTOTRBO and Professional Series radios.
PORTABLE ANTENNAS

COMBINATION GPS/UHF ANTENNAS
Optimum length antenna designed for higher gain to maximize range. This rugged, capless design provides maximum flexibility and built-in capability to operate at GPS frequencies.

- **PMAE4018**: Combination GPS/UHF - 403-433 MHz, 14 cm Folded Monopole
- **PMAE4024**: Combination GPS/UHF - 430-470 MHz, 14 cm Folded Monopole
- **PMAE4050**: Combination GPS/UHF - 450-495 MHz, 14 cm Folded Monopole
- **PMAE4051**: Combination GPS/UHF - 495-527 MHz, 14 cm Folded Monopole

COMBINATION GPS/VHF ANTENNAS

- **PMAD4067**: Combination GPS/VHF - 136-147 MHz, 17 cm Helical
- **PMAD4068**: Combination GPS/VHF - 147-160 MHz, 17 cm Helical

FLEXIBLE WHIP ANTENNAS
Flexible Whip Antennas have a one-piece finish, steel core, and spiral wound conductor for optimal radiation characteristics.

- **PMAE4022**: UHF - 403-470 MHz, 16 cm Flexible Whip
- **PMAE4049**: UHF - 450-527 MHz, 16 cm Flexible Whip
- **PMAD4088**: VHF - 136-174 MHz, 21 cm Wideband

STUBBY ANTENNAS
Stubby antennas are ideal when the radio is worn on the belt because they are short and non-obtrusive. These rugged, helical antennas feature a capless sheath that allows for maximum flexibility.

- **PMAE4021**: Combination GPS/UHF - 403-433 MHz, 9 cm Stubby
- **PMAE4022**: Combination GPS/UHF - 430-470 MHz, 9 cm Stubby
- **PMAE4048**: Combination GPS/UHF - 450-527 MHz, 9 cm Stubby
- **PMAD4093**: VHF - 136-147 MHz, 11 cm Stubby
- **PMAD4094**: VHF - 147-160 MHz, 11 cm Stubby
- **PMAD4095**: VHF - 160-174 MHz, 11 cm Stubby

PUBLIC SAFETY MICROPHONE ANTENNAS
One of the following antennas must be purchased with Public Safety Microphones.

- **PMAE4046**: UHF - 403-433 MHz, 9 cm PSM Stubby
- **PMAE4047**: UHF - 430-470 MHz, 9 cm PSM Stubby
- **PMAD4086**: VHF - 150-174 MHz, 16 cm PSM
- **PMAD4087**: VHF - 136-153 MHz, 16 cm PSM

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2 Also a Public Safety Microphone antenna.
MOBILE AUDIO

STANDARD COMPACT MICROPHONE
Standard Compact Microphone provides basic push-to-talk functionality and ships with all MOTOTRBO mobile radios.

IMPRES KEYPAD MICROPHONE
IMPRES Keypad Microphone includes a full keypad that enables you to dial phone numbers from the microphone, also has three customizable buttons that can be programmed with any of the control head features, allowing the user to navigate radio menus from the microphone.

IMPRES HEAVY-DUTY MICROPHONE
Heavy-Duty Microphone for users who want more durability, also ideal for those who need a larger microphone that is easier to handle when wearing gloves.

IMPRES TELEPHONE STYLE HANDSET
This Telephone Style handset provides a flexible, discreet option when using the mobile for private conversations in a vehicular environment. Includes a full keypad that enables you to dial phone numbers or send text messages.

MOBILE MICROPHONE ACCESSORIES

MICROPHONE EXTENSION CABLES

MICROPHONE HANG-UP CLIPS

PMK4033
10-foot Mobile Microphone Extension Cable
PMK4034
20-foot Mobile Microphone Extension Cable

HLN9073
Microphone Hang-Up Clip
HLN9414
Universal Microphone Hang-Up Clip

HANDS-FREE ACCESSORIES

IMPRES VISOR MICROPHONE
Add even more convenience and safety with the IMPRES Visor Microphone and its compatible hands-free transmission options. Small microphone mounts to vehicle’s visor for convenient hands-free radio operation. Use with choice of external push-to-talk switch.

EXTERNAL PTT ACCESSORIES

RLN5926
Pushbutton with Push-to-Talk. Can be held in the hand, or mounted to the vehicle with touch fasteners.

RLN5929
Emergency Footswitch
CONTROL STATION AND MOUNTING

CONTROL STATION ACCESSORIES
These control station accessories allow you to convert MOTOTRBO mobile two-way radios into convenient base stations.

RMN5050
Desktop Microphone. Black. Makes transmission easier for base station users, as the mobile microphone does not always have to be picked up. Large push-to-talk button.

GLN7318
Desktop Tray without Speaker. Ideal for securing mobile in place in a desktop environment.

RSN4005
Desktop Tray with Speaker. Ideal for securing mobile in place in a desktop environment. Includes speaker for increased volume when receiving calls in high-noise areas.

HKN9088
Adapter Cable for Control Station

HPN4007
Power Supply, 25-60W, for low power radios. Power cord included.

GPN6145
Switchmode Power Supply, 1-25W has provision for back-up battery hook-up.

POWER ACCESSORIES

EXTERNAL LOUD SPEAKERS

GKN6266
Power Supply Cable
Power Cable for Switchmode Power Supply GPN6145

RSN4002
13W External Speaker

RPN4003
7.5W External Speaker

RSN4004
5W External Speaker

MOUNTING BRACKETS
Mobile radios are most often installed on the dash of a vehicle, and can run off its power source.

RLN6077
Low Profile Trunnion Kit. Keeps radio tucked up under dash, can also be positioned for floor mount.

RLN6078
High Profile Trunnion Kit. Under dash mount, with extra clearance so radio can be tilted for a better view. Can also be used for floor mounting.

RLN6079
Key Lock Trunnion Kit. Key lock helps provide extra protection from theft. Lock/unlock radio from position in the mounting bracket.

DIRECT IN DASHBOARD MOUNTING KIT
Ideal if you prefer to mount the radio directly into the dash-board for a better appearance, or to keep it from being an obstruction in the vehicle.

RLN5933
In Dash Mounting Kit - DIN

REMOTE MOUNTING ACCESSORIES
Remote mounting capabilities allow you to save cabin space or hide the mobile power supply in the trunk.

PMLN5404
MOTOTRBO Mobile Remote Mount Adaptor Kit. For in-trunk installation, may also require HKN4192, 20 inch radio power cable. Remote Mount cable also required (PMKN4074 or PMKN4073).
CONTROL STATION AND MOUNTING

**PMKN4073**
MOTOTRBO Mobile Remote Mount 5
Meter Cable Kit

**PMKN4074**
MOTOTRBO Mobile Remote Mount 3
Meter Cable Kit

**PMKN4018**
Mobile Rear Accessory Connector Universal
Cable

**CABLES TO BATTERY**
Cables used to connect the battery to the radio chassis.

**HKN4137**
Power Cable to Battery 10 foot, 15 amp

**HKN4192**
Power Cable to Battery 20 foot, 20 amp

**RKN4136**
Ignition Sense Cable
MOBILE ANTENNAS

WIDE AREA THROUGH-HOLE MOUNT ANTENNAS
These through-hole mount antennas are designed to direct the signal more towards the horizon, making them ideal for applications in more geographically flat regions where signal coverage is sparse and must cover a larger area.

- **PMAN4000**
  Fixed Mount GPS Active Antenna. Discreet stand-alone GPS antenna has a semi-permanent mount easily assembled with minimal tools to vehicle roof or trunk.

- **PMAN4001**
  Glass Mount GPS Active Antenna

- **PMAN4002**
  Magnetic Mount GPS Active Antenna. Discreet stand-alone GPS antenna can be mounted either magnetically, via screw or tape to vehicle roof or trunk.

URBAN THROUGH-HOLE MOUNT ANTENNAS
The signals for these through-hole mount antennas radiate vertically, making them ideal for urban environments where buildings can obstruct the signal.

- **RAE4163ARB**
  410-430 MHz, Stubby

- **RAE4164ARB**
  430-450 MHz, Stubby

- **RAE4168ARB**
  450-470 MHz, Stubby

- **RAE4165ARB**
  470-490 MHz, Stubby

- **HAE4002**
  403-430 MHz, 1/4 Wave

- **HAE4003**
  430-470 MHz, 1/4 Wave

- **HAE4004**
  470-527 MHz, 1/4 Wave

- **HAE4010**
  406-420 MHz, 3.5d Gain

- **HAE4011**
  450-470 MHz, 3.5d Gain

- **HAE4012**
  470-494 MHz, 3.5d Gain

- **HAE4013**
  494-512 MHz, 3.5d Gain

- **HAE4026**
  806-941 MHz, 3d Gain

- **HAE4014**
  806-941 MHz, 5d Gain

- **HAE4015**
  806-941 MHz, 5d Gain

- **HAE4027**
  806-941 MHz, 5d Gain

- **HAE4028**
  806-941 MHz, 5d Gain

- **HAF4025**
  806-941 MHz, 1/4 Wave

- **RAE4004**
  445-470 MHz, 5d Gain

- **RAE4005**
  445-470 MHz, 5d Gain

- **RAE4006**
  445-470 MHz, 5d Gain

- **RAE4007**
  445-470 MHz, 5d Gain

- **RAE4008**
  445-470 MHz, 5d Gain

- **RAE4009**
  445-470 MHz, 5d Gain

- **RAE4010**
  445-470 MHz, 5d Gain

- **RAE4011**
  445-470 MHz, 5d Gain

- **RAE4012**
  445-470 MHz, 5d Gain

- **RAE4013**
  445-470 MHz, 5d Gain
MOBILE ANTENNAS

COMBINATION GPS ANTENNAS

The following through-hole mount antennas combine UHF or VHF and GPS capability. This combination antenna design with Mini U connector provides GPS tracking coverage and voice/data wireless capabilities for fleet monitoring or tracking applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAE6019</td>
<td>GPS/UHF - 403-527 MHz, 2dB Gain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE6020</td>
<td>GPS/UHF - 470-527 MHz, 1/4 Wave</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE6024</td>
<td>GPS/UHF - 470-494 MHz, 3.5dB Gain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE6026</td>
<td>GPS/UHF - 494-512 MHz, 3.5dB Gain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE6019</td>
<td>GPS/UHF - 406-420 MHz, 3.5dB Gain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE6020</td>
<td>GPS/UHF - 450-470 MHz, 1/4 Wave</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAE6024</td>
<td>GPS/UHF - 450-470 MHz, 5dB Gain</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINATION GPS/VHF

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD4214</td>
<td>GPS/VHF - 136-144 MHz, 1/4 Wave</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAD4215</td>
<td>GPS/VHF - 146-150.8 MHz, 1/4 Wave</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAD4216</td>
<td>GPS/VHF - 150.8-162 MHz, 1/4 Wave</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAD4217</td>
<td>GPS/VHF - 162-174 MHz, 1/4 Wave</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAD4218</td>
<td>GPS/VHF - 146-172 MHz, 3dB Gain</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINATION GPS/800/900 MHz

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAF4029</td>
<td>GPS/800/900 MHz - 808-941 MHz, 1/4 Wave</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAF4030</td>
<td>GPS/800/900 MHz - 808-941 MHz, 3dB Gain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAF4031</td>
<td>GPS/800/900 MHz - 808-941 MHz, Stubby</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAF4032</td>
<td>GPS/800/900 MHz - 808-941 MHz, 5dB Gain</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REPEATER ACCESSORIES

DUPLIEXERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFD8188</td>
<td>VHF - Untuned Duplexer, 144-155 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFD8189</td>
<td>VHF - Untuned Duplexer, 155-162 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFD8190</td>
<td>VHF - Untuned Duplexer, 162-174 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFD8465</td>
<td>VHF - Tuned Duplexer, 150-160 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFD8188</td>
<td>UHF - Untuned Duplexer, 406-450 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFD8189</td>
<td>UHF - Untuned Duplexer, 450-470 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFD8465</td>
<td>UHF - Tuned Duplexer, 470-490 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFE8400</td>
<td>UHF - Untuned Duplexer, 406-450 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFE8400</td>
<td>UHF - Untuned Duplexer, 450-470 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFE8400</td>
<td>UHF - Tuned Duplexer, 470-490 MHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

UNTUNED DUPLEXERS

For use with 100 Watt power amplifiers.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>0185417U01</td>
<td>VHF Duplexer, 132-146 MHz (5 MHz separation RX or TX)</td>
<td>110W</td>
<td></td>
</tr>
<tr>
<td>0185417U02</td>
<td>VHF Duplexer, 144-160 MHz (5 MHz separation RX or TX)</td>
<td>110W</td>
<td></td>
</tr>
<tr>
<td>0185417U03</td>
<td>VHF Duplexer, 158-174 MHz (5 MHz separation RX or TX)</td>
<td>110W</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>0185417U04</td>
<td>UHF Duplexer, 403-440 MHz (5 MHz separation RX or TX)</td>
<td>110W</td>
<td></td>
</tr>
<tr>
<td>0185417U05</td>
<td>UHF Duplexer, 435-470 MHz (5 MHz separation RX or TX)</td>
<td>110W</td>
<td></td>
</tr>
<tr>
<td>0185417U06</td>
<td>UHF Duplexer, 470-490 MHz (5 MHz separation RX or TX)</td>
<td>110W</td>
<td></td>
</tr>
<tr>
<td>0185417U07</td>
<td>UHF Duplexer, 490-512 MHz (5 MHz separation RX or TX)</td>
<td>110W</td>
<td></td>
</tr>
</tbody>
</table>

DUPLEXER ACCESSORIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>011204B04</td>
<td>N Type Male to N Type Male Duplexer</td>
<td>24 Inch</td>
<td></td>
</tr>
<tr>
<td>011204U04</td>
<td>N Type Male to BNC Male Duplexer Cable</td>
<td>24 Inch</td>
<td></td>
</tr>
<tr>
<td>3082080X01</td>
<td>Right angle N-type male to straight n-type male 30” cable</td>
<td>to connect 100W power amplifier to external duplexer or preselector</td>
<td></td>
</tr>
<tr>
<td>PMLE4548</td>
<td>Rack Mount Duplexer/Filter Enclosure Kit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Antenna not ideal for roof-mounted use.
## REPEATER ACCESSORIES

### ANTENNAS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDE4556</td>
<td>UHF - 3.8dB Gain Antenna</td>
<td>440-474 MHz</td>
<td>3.8dBi</td>
</tr>
<tr>
<td>RDD4527</td>
<td>VHF - 136-144 MHz 1/4 Wave Antenna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RDE4555</td>
<td>UHF - 3.8dB Gain Antenna</td>
<td>470-488 MHz</td>
<td>3.8dBi</td>
</tr>
<tr>
<td>RDE4557</td>
<td>UHF - 3.8dB Gain Antenna</td>
<td>403-420 MHz</td>
<td>3.8dBi</td>
</tr>
<tr>
<td>DSTRBO800ANTSC420</td>
<td>800 MHz – 8.5dB Gain Antenna, 806-899 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSTRBO900ANTSC420</td>
<td>900 MHz – 7.5dB Gain Antenna, 896-941 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFE8459</td>
<td>UHF Preselector, 440-474 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDF8461</td>
<td>VHF Preselector, 144-160 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDF8462</td>
<td>VHF Preselector, 160-174 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HFE8460</td>
<td>UHF Preselector, 474-527 MHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CIRCULATOR

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFF4003</td>
<td>810-960 MHz Circulator, 18 dBi min insulation, 100W max power handling</td>
</tr>
</tbody>
</table>

### PRESELECTOR

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFE8459</td>
<td>UHF Preselector, 440-474 MHz</td>
<td></td>
</tr>
<tr>
<td>HDF8461</td>
<td>VHF Preselector, 144-160 MHz</td>
<td></td>
</tr>
<tr>
<td>HDF8462</td>
<td>VHF Preselector, 160-174 MHz</td>
<td></td>
</tr>
<tr>
<td>HFE8460</td>
<td>UHF Preselector, 474-527 MHz</td>
<td></td>
</tr>
</tbody>
</table>

### 100 WATT POWER AMPLIFIERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSP1020MOVCS</td>
<td>P10 Series Amplifier, 136-174 MHz, 20-50W Input, 100W Output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSP1020MOUC5</td>
<td>P10 Series Amplifier, 408-512 MHz, 20-50W Input, 100W Output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSP1015MJ0KC6</td>
<td>P10 Series Amplifier, 764-870 MHz, 15-25W Input, 150W Output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSP1020MOJ0KC6</td>
<td>P10 Series Amplifier, 928-942 MHz, 20-50W Input, 150W Output</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MOUNTING

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMLE4476</td>
<td>Wall Mount Kit for XPR 8300</td>
</tr>
<tr>
<td>PMLN5072</td>
<td>Hardware Kit for Rear Accessory Connector</td>
</tr>
<tr>
<td>HKN9088</td>
<td>Mobile Mini U Antenna Adapter with 8 Foot Cable</td>
</tr>
</tbody>
</table>

The following 100W Amplifiers include an integrated 110W Power Supply:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency Range</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSP1020MOVPS</td>
<td>P10 Series Amplifier, 136-174 MHz, 20-50W Input, 100W Output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSP1020MOUPS</td>
<td>P10 Series Amplifier, 408-512 MHz, 20-50W Input, 100W Output</td>
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<td></td>
</tr>
</tbody>
</table>

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<td>P10 Series Amplifier, 408-512 MHz, 20-50W Input, 100W Output</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
REPEATER ACCESSORIES

LIGHTNING PROTECTION ACCESSORIES

RRX4025
Lightning Arrester
RRX4032
Tower Mounting Hardware
RRX4038
Surge Suppressor

RRX4152
Battery Back-up Cable

3087791G01
120V AC Line Cord

MISCELLANEOUS

PMK4010
Mobile and Repeater Rear Accessory Programming Cable
PMK4016
Mobile and Repeater Rear Programming, Test and Alignment Cable
For more information on how to make your business more efficient and better connected, visit www.motorola.com/mototrbo