Accessories for a Customised Communication Solution

For Motorola Professional Series Portable Radios

Accessories for a Customised Communication Solution

For Motorola
GP328/GP338, GP329/GP339 & PTX700/760/780
Professional Portable Radio Series

2-way communication adds value to your work operations by integrating all functions seamlessly and delivering the right information to the right people at the right time.

Turn your professional radio system into a complete communications solution. Adding the proper accessories enhances the utility and productivity of your 2-way radio. Each Motorola original accessory ensures peak performance to match the standards you demand.

MOTOROLA ORIGINAL accessories

**Nothing Works
Like A Motorola
Original Accessory**

* Note: To ensure compliance with RF energy exposure standards and regulations, use only Motorola-approved batteries and accessories. Use of non-Motorola-approved batteries and accessories may result in RF energy exposure standards being exceeded.

Table of Content

Batteries

Motorola original batteries are available in a variety of chemistries and capacities, designed to work hand-in- hand with your 2-way radios to ensure optimised performance and safety for your business.

NICKEL METAL-HYDRIDE

Part Number	PMNN4008
	(comes with spring clip HLN9844)
Capacity/ Size:	High cap / standard
Avg mAH:	1450mAH
Dimension:	55 x 125 x 20 mm

Part Number	PMNN4045 (MAG ONE)
Capacity/ Size:	High cap / standard
Avg mAH:	1400mAH
Dimension:	55 x 125 x 20 mm

Part Number	PMNN4009
	(comes with spring clip HLN9844)
Capacity/ Size:	Ultra-High / standard
Avg mAH:	1900mAH
Dimension:	55 x 125 x 22 mm

Part Number	HNN9010
Capacity/ Size:	Ultra-High / standard
Avg mAH:	1800mAH
Dimension:	55 x 125 x 22 mm
FM Rating#:	IS & NI

NICKEL CADMIUM

Part Number	PMNN4012
	(comes with spring clip HLN9844)
Capacity/ Size:	High cap / standard
Avg mAH:	1550mAH
Dimension:	55 x 123 x 20 mm

Part Number	HNN9011
Capacity/ Size:	High cap / standard
Avg mAH:	1550mAH
Dimension:	55 x 125 x 20 mm
FM Rating#:	IS & NI

LITHIUM-ION

Part Number	PMNN4023
	(comes with spring clip HLN9844)
Capacity/ Size:	High cap / slim
Avg mAH:	1500mAH
Dimension:	55 x 125 x 16 mm

*   **Important note: PMNN4008, PMNN4045, PMNN4023 and HNN4003 cannot be used on low band radios**

\#   **IS – Intrinsically safe (Div 1, Class I, II, III, Groups C, D, E, F, G)**

\#   **NI – Non-incentive (Div 2, Class I Groups A, B, C, D)**

ALKALINE CLAMSHELL BATTERY

Catering to radio users operating in remote areas without access to power source, this clamshell battery is powered by 12 "AA" alkaline cells for "always-on" communication.

The duty-cycle operation time at 5-5-90 is 10 hour (5 W Tx) and 30 hour (1 W TX) respectively which provides sufficient talk-time during remote emergency operation.

NNTN5332   Alkaline Clamshell Battery

Recommended AA Alkaline cells :

Part Number	6005310A01
	AA Cell, 4/PK Duracell

	6080390B60
	AA Cell, 4/PK Energizer

impres™ BATTERIES

impres batteries, when used with an impres charger, provide automatic, adaptive reconditioning, end of life display, and other advanced features. Data is stored in the battery and communicated to the charger via an unique impres communication protocol which is designed to maximize talk time, automate battery maintenance and optimize battery cycle life.

impres™ NICKEL METAL-HYDRIDE

Part Number	HNN4001
Capacity/Size:	Ultra-High / standard
Avg mAH:	1900mAH
Dimension :	55 x 125 x 23 mm

Part Number	HNN4002
Capacity/Size:	Ultra-High / standard
Avg mAH:	1800mAH
Dimension :	55 x 125 x 23 mm
FM Rating# :	IS & NI

impres™ LITHIUM-ION

Part Number	HNN4003
Capacity/Size:	Ultra-High / standard
Avg mAH:	2000mAH
Dimension :	55 x 125 x 23 mm

PMNN4008*
shown with belt clip
HLN9714 (order separately)

HNN9010

PMNN4023*
(not shown with clip)

NNTN5332

HNN4001   HNN4002

Charging Accessories

Designed to work as a total system with the 2-way radio and battery, Motorola original chargers maximise the battery life and keep batteries in tip-top condition. Choose from the tri-chemistry single/multi unit charger to the sophisticated 6-slot battery maintenance system that provides battery health diagnostic and re-conditioning capabilities.

SINGLE UNIT TRI-CHEMISTRY, RAPID RATE

Utilise an enhanced charging algorithm that helps maximise the life of your batteries. Compatible with NiCd, NiMH and LiIon batteries. Nickel-based batteries will be fully charged in approximately 90 minutes (depending on battery capacity). Full charging of LiIon batteries may take approximately 3 hours. Allows battery only or radio/battery combination charging.

PMTN4024	Single Unit Rapid Charger 110V – US plug
PMTN4025	Single Unit Rapid Charger 230V – Euro plug
PMTN4026	Single Unit Rapid Charger 230V – UK plug

SINGLE UNIT CONDITIONING CHARGERS

Utilise enhanced pulse charging interpersed with regular discharge pulse current to minimise "memory-effect" and overheating of NiCd and NiMH batteries. A standard capacity battery takes approximately 90 minutes for a full charge. Pulse maintenance charging after a full charge maintains peak capacity for the battery.

WPLN4107	Single Unit Conditioning Charger 110V –US plug (Battery adapter included)
WPLN4106	Single Unit Conditioning Charger 230V –Euro plug (Battery adapter included)
3080384G15	Cigarette Lighter Adapter

4-SLOT CONDITIONING CHARGERS

Choose also from the four slot multi-conditioning chargers that utilises regular pulse current to minimise "memory-effect" and overheating of Nickel-based batteries. Full charging in approximately 90 minutes. Batteries must be removed from radios to perform conditioning charging since radio contacts must be used.

WPPN4065	4-Slot Multi Conditioning 110V –US cord (Battery adapter not included)
WPPN4076	4-Slot Multi Conditioning 230V –Euro cord (Battery adapter not included)
WPPN4082	Battery Adapter (Order separately)

PMTN4025

WPLN4182

WPLN4106

WPLN4187

WPPN4065

impres™ SMART ENERGY SYSTEM

The impres smart energy system ensures maximum talk-time and optimized battery cycle life through the use of its advanced charging algorithm and automatic reconditioning features. The smart energy system reconditions impres batteries when they need it, automatically, keeping them in peak condition. Its advanced conditioning features allow batteries to be safely left on the charger for extended periods of time without incurring the damaging heat build-up which can rob batteries of cycle life. In addition, batteries left on the charger are kept fully charged so they are always ready when you need them. The impres system reconditions batteries when they need it based on their usage pattern. Talk time and cycle life are optimized and the need for manual maintenance programs eliminated. Although complete smart features are realised only when using impres batteries and chargers together, impres chargers can also handle legacy batteries; in fact, the multi-unit chargers can simultaneously charge legacy and impres batteries.

impres™ SINGLE UNIT CHARGER

WPLN4182	impres™ Single Unit Charger 110V US Plug
WPLN4183	impres™ Single Unit Charger 230V UK Plug
WPLN4184	impres™ Single Unit Charger 230V EU Plug
WPLN4185	impres™ Single Unit Charger AUST Plug

impres™ MULTI-UNIT CHARGER

WPLN4187	impres™ Multi-unit Charger US Cord
WPLN4188	impres™ Multi-unit Charger UK Cord
WPLN4189	impres™ Multi-unit Charger EU Cord
WPLN4190	impres™ Multi-unit Charger AUST Cord
WPLN4145	impres™ Multi-unit Charger KOREA Cord

impres™ MULTI-UNIT CHARGER WITH DISPLAY MODULES

Motorola's impres multi-unit chargers are now available with a two line LCD display module that communicates important information. Charger Display Modules provide powerful "real time" analyzing information for impres batteries, including charge status (charging or reconditioning), current battery mAh; percent rated capacity, battery voltage; battery kit number; battery serial number; battery chemistry; time remaining to charge complete; forecast number of cycles to next reconditioning; and more.

WPLN4192	impres™ Multi-unit Charger with Display Modules US Cord
WPLN4193	impres™ Multi-unit Charger with Display Modules UK Cord
WPLN4194	impres™ Multi-unit Charger with Display Modules EU Cord
WPLN4195	impres™ Multi-unit Charger with Display Modules AUST Cord
WPLN4146	impres™ Multi-unit Charger with Display Modules KOREA Cord

impres™ INDIVIDUAL CHARGER DISPLAY MODULE

These modules are designed to be retrofittable with the standard impres™ Multi-Unit Charger (WPLN4192/3/4/5/6). Up to six modules can be purchased per charger, one for each charging pocket. Includes detailed installation instructions.

RLN5382   Charger Display Module

WPLN4192

RLN5382

Vehicular Accessories

MOBILE VEHICLE ADAPTERS

This range of vehicle adapters is specially designed for the use of portable radios in a mobile environment. Once installed in a vehicle, the portable turns into a virtual mobile radio. Key features include in-vehicle charging and power, innovative antenna adapter (frequency dependent) to provide extended coverage, in-vehicle programming capability and hands-free accessibility. For proper installation and software configuration, the ENLN4114 product manual must be ordered separately.

EN1006   VHF Vehicle Adapter (136MHz – 174MHz)

EN1007   UHF Vehicle Adapter (403MHz – 470MHz)

EN1008   UHF Vehicle Adapter (450MHz –527 MHz)

Above vehicle adapter models include ENLN4103 (136MHz –174MHz) or ENLN4104 (403MHz–470MHz) or ENLN4111 (450–527 MHz) antenna adapter respectively.

Note: (1) Not compatible with impres batteries
      (2) 12 Vdc operation only

Battery spacers for different radio/battery sizes, installation kit, mounting bracket and user guide are all included in the package.

GMN6146   Handheld Microphone

ENLN4114   Vehicle Adapter Product Manual

GSN6059   External Speaker, 13 W

EN1006

TRAVEL CHARGER

This 2-in-1 innovative travel charger combines the function of the battery eliminator and tri-chemistry charger and allows you to charge your battery even when you are away from the vehicle. With an audio accessory, it can be turned into a hands-free vehicle solution. The travel charger complete kit consists of a charger base, cigarette lighter adapter, a mounting bracket and an instruction manual.

RLN4883A   Travel Charger

2580600E05   Optional 110V Desktop Power Adapter (US Plug)

2580600E06   Optional 230V Desktop Power Adapter (EU Plug)

2580600E07   Optional 230V Desktop Power Adapter (UK Plug)

RLN4883

Battery Maintenance System Plus (BMS Plus)

Using interchangeable battery adapters (sold separately), the BMS Plus is capable of charging and discharging, analysing, conditioning and performing cycle tests on batteries through tracking the battery's voltage and capacity (mAh).

Latest enhancements include a software upgrade on the equipment to safely charge and analyse Lithium Ion batteries using specified LiIon adapters. This six station BMSPlus can support hundreds of 2-way, cellular and camcorder batteries.

WPLN4079	Six Station, Battery Maintenance System Plus 110V AC, 50/60Hz –US cord
WPLN4080	Six Station, Battery Maintenance System Plus 230V AC, 50/60Hz – Euro cord
WPLN4081	Six Station, Battery Maintenance System Plus 230V AC, 50/60Hz – UK cord

BMS PLUS ADAPTERS#

WPPN4079	Battery Adapter (NiCd & NiMH)
WPPN4080	Battery Adapter (NiCd, NiMH, LiIon compatible)
WPPN4085	LiIon Field Upgrade Kit (micro, extraction tool, manual) For upgrading of WPLN4079 / WPLN4080 / WPLN4081.

#Belt clip may need to be removed from the battery to fit the adapters

WPPN4079

WPLN4080

Audio Accessories

Motorola's range of audio accessories integrates perfectly with the radio to provide a personalised two-way radio solution. Built to highest quality standards, Motorola accessories are specially engineered to ensure maximum performance of your radio.

Designed as a complete solution, our extensive range of audio accessories from remote speaker microphone, headset, covert surveillance kits and special application accessories provide you the flexibility of hands-free operations and personal safety.

PUBLIC SAFETY MICROPHONE (PSM)

These public safety microphones are specially designed to cancel ambient noise during transmission. The integrated antenna provides additional antenna height for a better radiation pattern. Ideal for public safety, eg. Patrol police and emergency services. Plug in the optional receive-only earpiece to enjoy confidential listening without broadcasting the message.

AAHMN9054	UHF Public Safety Microphone (includes UHF antenna, swivel chip, straight cord, volume toggle switch and 3.5mm jack.)
AAHMN9057	VHF Public Safety Microphone (includes VHF antenna, swivel chip, straight cord, volume toggle switch and 3.5mm jack)
AARLN4885	Receive-only earpiece with 3.5mm plug
PMLN4620	D-Shell Receive-only earpiece with 3.5mm plug

D-Shell PMLN4620

REMOTE SPEAKER MICROPHONE

Remote speaker microphone provides greater operational flexibility to transmit and receive messages without removing the radio from the belt or carrying case.

These small remote speaker microphones boast a revolutionary windporting feature that provides clear communication even in high winds and other severe weather conditions. Wind noise is lessened, and audio can pass through the speaker grill even when the microphone port is blocked by water, enhancing a user's confidence of clear, understandable communication when Mother Nature is uncooperative. Suitable for public safety, manufacturing, logistics and service industries operating in high wind environments.

PMLN4694   Remote Speaker Microphone (IP54)

PMMN4021   Remote Speaker Microphone with 3.5mm Audio Jack (IP54)

PMMN4027   Remote Speaker Microphone (IP57)

The Heavy Duty Remote Speaker Microphone is designed with an exceptionally rugged housing for rugged work environments, and comes with a Hi/Lo Volume Control for quick and easy access to volume control. Also boasting the windporting feature, it is ideal for firefighters, police and other public safety professionals. The large housing is beneficial for users needing to access the radio while wearing gloves.

PMMN4044   Heavy Duty Remote Speaker Microphone with Hi/Lo Volume Control (IP57)

The Noise Cancelling Remote Speaker Microphone is designed to cancel out ambient noise during transmission. Suitable for use in high ambient noise environments. The large housing is beneficial for users needing to access the radio while wearing gloves.

PMMN4039   Noise Cancelling Remote Speaker Microphone with 3.5mm Audio Jack (IP54)

OPTIONAL SECONDARY ACCESSORIES FOR REMOTE SPEAKER MICROPHONES

PMLN4620   D-Shell Receive-only earpiece

AARLN4885   Receive-Only Covered Earbud with Coiled Cord

RLN4941   Receive-Only Earpiece with Translucent Tube and Rubber Eartip

WADN4190   Receive-Only Flexible Earpiece

STANDARD EARPIECE/EARSET

Standard earpiece/earset provides hands-free mobility that matches your business budget. It also enhances the level of professionalism and image that customers expect from any organisation. It is suitable for users in retail, hotel, catering, hospitality and catering services.

PMLN4418   Earbud with combined Microphone / Push-To-Talk (PTT)

PMLN4653   D-hook Earset with flexible Microphone tube

PMLN5000   D-Shell Earpiece with Combined Microphone/Push-To-Talk (PTT)

Small earpiece that fits comfortably to the ear to ensure private conversations without being overheard. A clip-on thumb style, compact Microphone/PTT allows users easy access to conduct conversations.

FLEXIBLE EAR RECEIVER

The Flexible Ear Receiver contains a flexible ear-loop and speaker and rests external to the ear. Receive only.

ENMN4013   Flexible Ear Receiver

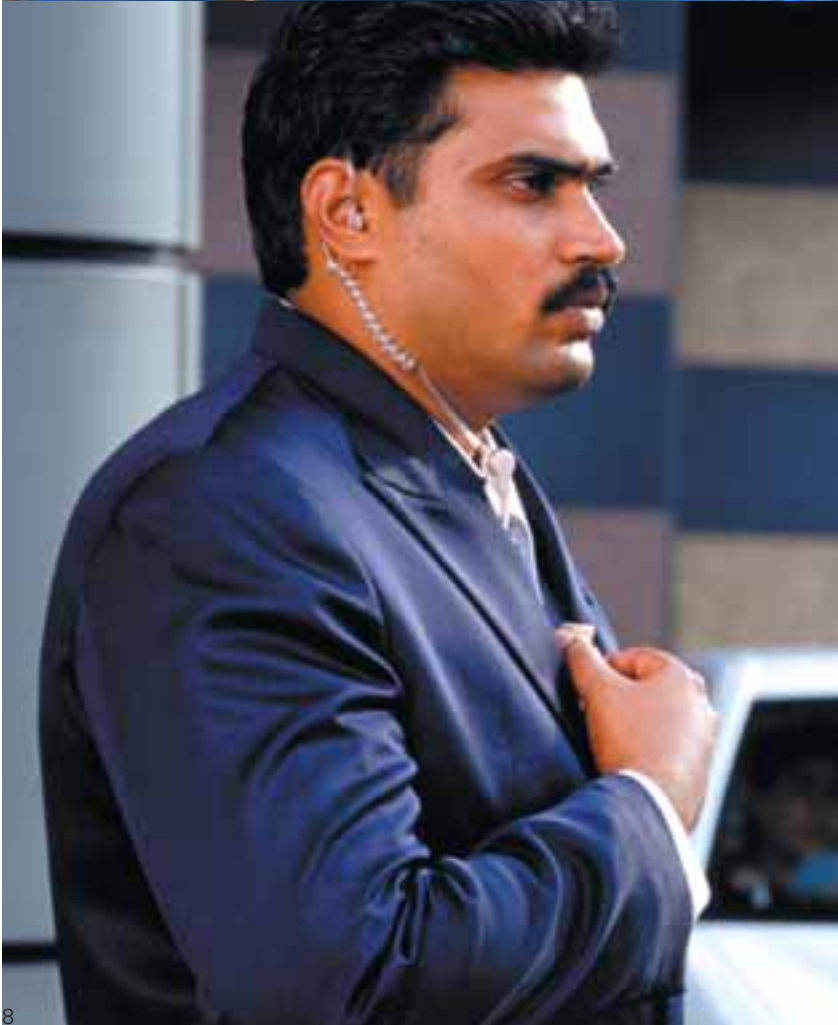7580372E11 Replacement Foam Ear Cushions

PMMN4044

PMMN4021

PMLN4653

ENMN4013

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PMMN4021   Remote Speaker Microphone

AZRMN4022   2-wire Surveillance kit

0180358B38   Remote Ring PTT Switch
AZRMN4045   VOX/PTT Radio Interface Module
BDN6677   Standard ear Microphone (black)

AZRMN4018   Light Weight Headset with Boom Mic
and in-line PTT

HEADSETS

For moderate/noisy environments in high activity operations, the headset is designed to secure firmly on the head, an ideal companion for your hands-free needs. Choose from the light weight headsets that are suitable for use in low noise environment to the heavy duty headsets equipped with hearing protection.

LIGHT WEIGHT HEADSETS

The light weight headset sits firmly over the ear and allows high clarity, hands-free communications while adding comfort for extended wear. It is most suitable for users in entertainment, retail, sports and logistics industries.

AARMN4017   Ultralite Headset with Boom Microphone, earbud style receiver

ENMN4012   Behind-the-head Ultralite Headset (In-line PTT)

AZRMN4031   Light Weight Headset with Swivel Boom Microphone (compatible with internal VOX)

AZRMN4018   Light Weight Headset with Boom Microphone and In-Line PTT

AZRMN4018

MEDIUM WEIGHT HEADSETS

Medium weight dual-muff headsets offer high-clarity sound with limited hearing protection for consistent and clear two-way communications in harsh and noisy situations. Available in "over-the-head" designs, they are suitable for construction, manufacturing, petrochemical and air transport industries.

AZRMN4032   Medium Weight Dual-Muff Headset with Swivel Boom Microphone (over the head – 24dB noise reduction compatible with internal VOX)

AZRMN4019   Medium Weight Dual-Muff Headset with Swivel Boom Microphone and In-Line PTT (over the head – 24dB noise reduction)

ENMN4016   Medium Weight Behind-the-head headset with Swivel Boom Microphone and In-line PTT

AZRMN4032

HEAVY DUTY HEADSET

The Heavy-duty headset includes a noise-cancelling boom microphone with good hearing protection and external VOX function. This headset allows flexible "over-the-head" or "behind-the-head" fitting, can be worn with or without a hardhat and is suitable for use in noise levels up to 125dB. Suitable for mining, petro-chemical, marine and air transport industries.

AZRMN4020   Heavy Duty Headset with Noise-Cancelling Boom Microphone

AZRMN4020

RACING HEADSET

This heavy-duty headset can be worn with most hardhats. Ideal for high noise environments; racing teams like CART® use it in the pits for dependable communication. Adapter Cable required.

RMN5015   Racing Headset - Heavy Duty, behind-the-head headset with noise cancelling swivelboom microphone. Noise Reduction rating 24dB (adapter cable required and sold separately)

RKN4091   Racing Headset Adapter Cable

RMN5015

HARDHAT MOUNT HEADSET

Mounts easily to hardhats with slots and provide significant noise reduction in louder work environments.

RMN4051   Hardhat Mount Headset; Provides 22dB of noise reduction; dual muff (adapter cable required and sold separately)

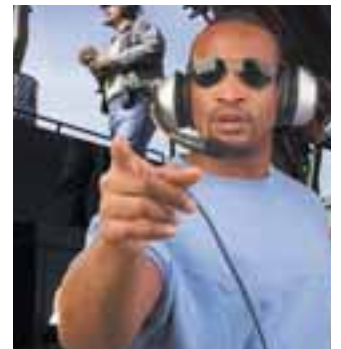RKN4097   Hardhat Mount and Tactical Headset Cable of In-line PTT adapter for use with RMN4051 / RMN4052 / RMN4053

RMN4051

TACTICAL MEDIUM WEIGHT HEADSETS

Ideal for two-way communication in extremely noisy environments. Dual-muff, tactical headsets offer the same high-clarity sound and additional hearing protection as our medium weight headsets, while including 2 microphones on the outside of earcups which reproduce ambient sound back into headset. Harmful sounds are suppressed to safe levels, and low sounds are amplified up to 5 times original level, but never more than 82dB. Has on/off volume control on earcups. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Adapter Cable required. Hardhat not included.

RMN4052	Tactical Headband Style Headset with Boom Mic Grey ; Noise Reduction Rating of 24db; (adapter cable required and sold separately)
RMN4053	Tactical Hardhat Mount Headset, Grey; Noise Reduction Rating of 22db; (adapter cable required and sold separately)
RKN4097	Hardhat Mount and Tactical Headset adapter Cable with In-line PTT for use with RMN4051 / RMN4052 / RMN4053

SURVEILLANCE KITS

Surveillance kits are unobtrusively designed, making them the ideal audio accessories for effective communication in covert operations. Most suitable for security forces, special intelligence, military, law enforcement and public safety.

COVERT SURVEILLANCE KITS

Surveillance kits come in beige or black colours and can be easily concealed and camouflaged to allow discrete communications. The earpiece is designed with expandable flexibility for use with optional accessories (noise kits/wireless discrete earpiece) to enhance discrete and mission critical operations.

1-wire Surveillance Kits provide only listening capability making them suitable for users who only need to receive instructions/messages.

AZRMN4021	1-wire surveillance earpiece (Biege)
AZRMN4028	1-wire surveillance earpiece (Black)

2-wire Surveillance Kits are equipped with combined microphone and PTT in a single housing for receiving and transmission of messages.

AZRMN4022	2-wire surveillance earpiece with combined microphone/PTT (Biege)
AZRMN4029	2-wire surveillance earpiece with combined microphone/PTT (Black)
PMLN4607	2-wire surveillance kit with clear acoustic earpiece (not compatible with Noise Kits and Wireless Discrete Earpiece below)

3-wire Surveillance Kits come with a separate earpiece, microphone and a remote palm PTT that make them versatile and convenient for users to wear and communicate without being seen.

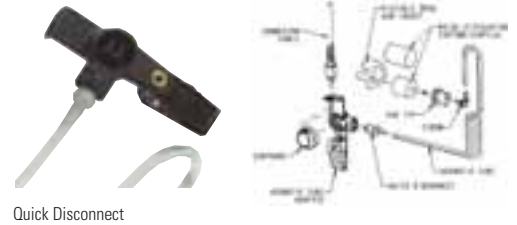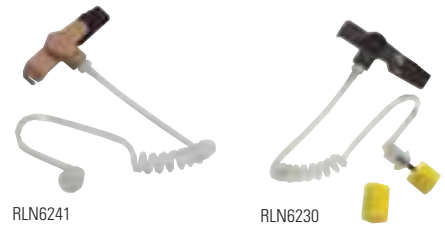|	
ENMN4017	3-wire surveillance earpiece with separate microphone and Palm PTT (Beige)
ENMN4014	3-wire surveillance earpiece with separate microphone and Palm PTT (Black)

RMN4052

AZRMN4021

AZRMN4029

PMLN4607

ENMN4017

OPTIONAL ACCESSORIES FOR SURVEILLANCE KITS – NOISE KITS

Ultra-light acoustic transparent tube that attaches to the surveillance kits by removing the existing earpiece. Provides flexibility and comfort and/or noise protection for users wearing surveillance accessories. The Quick Disconnect translucent tube allows users, especially those in multiple shift operations, to remove or alternate acoustic tubes for personal hygiene. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation.

RLN6241   RLN6230

RLN6232	Low Noise Kit. Includes rubber ear tip for low noise environments. (Black)
RLN6241	Low Noise Kit. Includes rubber ear tip for low noise environments. (Beige)
RLN6230	Extreme Noise Kit. Includes 2 foam ear plugs for noisy environments and provides 24dB of noise reduction. (Black)
RLN6231	Extreme Noise Kit. Includes 2 foam ear plugs for noisy environments and provides 24dB of noise reduction. (Beige)
RLN6242	Quick disconnect acoustic tube replacement

Quick Disconnect

WIRELESS DISCRETE EARPIECE

Enables users to communicate with ease, in full privacy, without any visible devices or wires. This miniature receiver is discretely hidden and fits the ear comfortably for extended use. It offers a full range of audio functions including automatic squelch, gain control and noise filtering.

Available in a kit that includes a wireless receiver and an inductive loop. For use, simply remove the earpiece on any standard 2 or 3-wire Motorola surveillance kit (sold separately) and plug in the neck loop. Spare batteries and earwax guards are also included.

| RLN4922 | Wireless Discrete Earpiece |

RLN4922

EAR MICROPHONE SYSTEM (VOICEDUCER)

This integrated earpiece/microphone utilises ear bone conduction to transmit voice thereby minimising external noise interference. The miniature earpiece/microphone enables hands-free operations and leaves the user's face unobscured especially when worn by personnel during rescue operations.

PTT radio interface module or VOX/PTT radio interface module must be used with the integrated earpiece/microphone to complete the system. The latter VOX/PTT module allows total hands-free without the need to PTT (push-to-talk) by utilising the external VOX (Voice Activated Transmission) feature. Choose also from optional remote PTTs (ring PTT or body switch PTT) to increase the functionality of the ear microphone system.

Ideal for listening and speaking in high noise environment and applications that require wearing of breathing apparatus and protective masks. Target markets include Armed Forces, Police SWAT team, military defence teams, security teams, chemical rescue and industrial organisations.

AZRMN4045 & BDN6677
(VOX/PTT Interface module shown with Ear Mic)

BDN6677	Standard Ear Microphone (Black). For noise levels up to 95dB
BDN6678	Standard Ear Microphone (Beige). For noise levels up to 95dB
BDN6641	High Noise Ear Microphone (Grey). For noise levels up to 105dB
AZRMN4044	PTT only Radio Interface Module
AZRMN4045	VOX/PTT Radio Interface Module
0180300E83	Remote Body PTT Switch (Optional)
0180358B38	Remote Ring PTT Switch (Optional)

AZRMN4045 (VOX/PTT Interface module)

0180358B38

COMMPORT INTEGRATED EAR MICROPHONE/RECEIVER SYSTEM

This state-of-the-art Commport system contains a miniature microphone and receiver employing the latest sound wave and digital processing technology. Major benefits are superior sound quality and clarity as well as extreme comfort even for extended wear to hear and speak in high noise backgrounds. Available in different configurations (radio PTT adapter, ring PTT, palm PTT), the Commport system's robust construction is suitable for emergency services, firefighters, SWAT or police in covert operations, or workers operating in noisy manufacturing, transportation or event management environments.

NTN1724	Integrated Ear Microphone/Receiver System (Ring PTT & AAHLN9717)
NTN1723	Integrated Ear Microphone/Receiver System (Palm PTT & AAHLN9717)
NTN1722	Integrated Ear Microphone/Receiver System (Radio Adapter PTT & AAHLN9717)
NTN1737	Integrated ear Microphone/Receiver System (Snap-on-side PTT & AAHLN9717)
NNTN4187	Integrated ear Microphone/Receiver System (Body PTT adapter & AAHLN9717)
AAHLN9717	Radio Adapter
NTN8986	Adhesive pads (qty = 90) for secure attachment to ear
NTN8988	Ear Straps (qty = 10) for secure attachment to ear

HANDS-FREE ACCESSORIES FOR SPECIAL APPLICATIONS

HELMET-COM AND NOISE-COM

The latest helmet-com is specially designed for users wearing any type of helmet (fire rescue, riot police, motorcycle, police troops) operating in harsh and hazardous conditions. Utilising a skull bone conduction microphone and effective speaker via a patented bracket system, it is connected to the 2-way radios via a large rugged fire retardant PTT that provides the electronic "brain" to optimise the amplification and acoustic filtering of the bone conduction microphone. This low profile PTT also meets water (splash) proof (IP55) and intrinsically safe standards.

ENMN4018	Helmet-com with com-PTT system (ENMN4011 + ENLN4135)
ENMN4011	Helmet-com unit (replacement item)
ENLN4135	Com-PTT unit (replacement item)

ENMN4018

The noise-com provides a cost effective, flexible, non-personal solution for users with existing hearing protectors/ear muffs operating in noisy environments. The noise-com unit easily fits to any hearing protector muff and can connect directly to the radio. Target markets are aviation, rail transport, heavy industry and manufacturing services.

ENMN4010	Noise-com

ENMN4010

TEMPLE-TRANSDUCER HEADSET

Specially engineered for users with hearing loss or hearing impairment, this innovative temple-transducer headset converts receive sound signals to vibration pressure signals, which in turn is converted by the human brain as intelligible, listening messages. Since it no longer uses the human ear canal to receive sound, this headset is ideal for working environments that are subject to extreme high noise as well as for users who need to listen to external background. The "behind-the-neck" headset style makes it comfortable for extended wear and can be worn with hats or helmets.

RMN4048	Temple Transducer headset with PTT
RMN5048	Rugged Temple Transducer headset with PTT

RMN5048

CARRYING ACCESSORIES

Carrying accessories are available in varying sizes and materials designed to suit your operational needs. Use them together with the other accessories for added convenience and hands-free mobility. Tested to EME compliance.

CARRYING CASES FOR RADIO WITH SLIM LITHIUM ION BATTERY

HLN9670	Hard Leather, swivel loop, non-keypad
HLN9690	Hard Leather, swivel loop, keypad
HLN9652	Hard Leather, Belt loop, D-Ring, non-keypad
HLN9677	Hard Leather, Belt loop, D-Ring, keypad

CARRYING CASES FOR RADIO WITH NIMH, NICD AND FM BATTERIES

HLN9665	Hard Leather, Belt Loop, D-Ring, non-keypad
HLN9676	Hard Leather, Swivel Loop, non-keypad
HLN9689	Hard Leather, Belt Loop, D-Ring, keypad
HLN9694	Hard Leather, Swivel Loop, keypad

CARRYING CASES FOR RADIO WITH ALL BATTERY SIZES

PMLN4280	Soft Leather, Swivel clip, keypad
PMLN4281	Soft Leather, Swivel clip, non-keypad
HLN9701	Hard Nylon, Belt loop, D-Ring, non-keypad (Not compatible with ultra-high batteries and impres™ batteries)

*D-Ring models can be used with shoulder strap NTN5243

UNIVERSAL CARRYING ACCESSORIES

HLN6602	Universal Carrying Accessories Chest Pack Designed with a radio holder, pen holder, and velcro secured pocket. (Not compatible with 900MHz and UHF Band radios)
RLN4815	RadioPak™ Radio/Utility Case Comfortable, useful and stylish, it can be worn round the waist to hold the radios. Includes a separate 6" x 8" zippered pouch to hold the other on-the-job necessities. Adjustable nylon weave belt is suitable for both men and women.

OPTIONAL CARRYING ACCESSORIES

HLN8414	Chest Pack Carry Holder
HLN9985	Waterproof Bag
HLN9844	Spring Belt clip (for 1.5in Belt Width)
HLN9714	Spring Belt clip (for 2.0in Belt Width)
NTN5243	Shoulder Carrying Strap (use with carrying cases with D-Rings)
HLN9149	Swivel Belt Loop Adapter (for use with HLN9652, HLN9677, HLN9665, HLN9689, HLN9701)

HLN9694

HLN9665

HLN9701

HLN9689

PMLN4280

NTN5243

HLN8414

HLN6602

HLN9844

Battery with Long Belt Clip attached (HLN9714 - order separately)

RLN4815

ANTENNA

Injection molded for rugged environments. Each antenna is tested and tuned to give maximum power and performance.

FLEXIBLE WHIP AND HELICAL/STUBBY ANTENNA

Flexible antenna has a one-piece finish and steel core for optimal radiation characteristics. Provides more comfort when radio is worn with belt.

Helical antennas are sturdy and reliable for years of safe communication. Each antenna is designed and optimised for best coverage and EMC compliance. The skirt at the base of the connector helps to seal out damaging elements and it is made of brass material for maximum durability.

The stubby quarter wave antenna is ideal when the radio is worn with the belt, as the short antenna is non-obtrusive.

UHF

PMAE4016	UHF Whip, 14cm to 16cm 403 – 520mHz (standard package)
PMAE4008	UHF Whip, 13cm 470 – 520mHz
PMAE4003	UHF Stubby Helical, 9cm 430 – 470mHz
PMAE4006	UHF Stubby Helical, 9cm 465 – 495mHz
PMAE4007	UHF Stubby Helical, 9cm 490 – 527mHz
PMAE4002	UHF Stubby Helical, 9cm 403 – 433mHz

VHF

NAD6502	VHF Helical, 13cm 146 - 174mHz
NAD6579	VHF Whip, 15cm 148 - 161mHz
PMAD4023	VHF Whip, 14cm 150 - 161mHz
PMAD4025	VHF Stubby Helical, 9cm 150 - 161mHz
PMAD4014	VHF Helical, 14cm 136 – 155mHz
PMAD4015	VHF Helical, 14cm 155 – 174mHz
PMAD4012	VHF Stubby Helical, 9cm 136 – 155mHz
PMAD4013	VHF Stubby Helical, 9cm 155 – 174mHz

LOW BAND

NAB6064	LB Helical, 30cm (length of antenna can be cut to desired frequency band) 29 – 50mHz

OTHER BAND

PMAD4009	Stubby Helical, 9cm 336 – 368mHz
PMAD4020	Stubby Helical, 9cm 370 – 400mHz

Stubby Antenna
PMAD4012

Whip Antenna
PMAE4016

Stubby Antenna
PMAD4015

Low Band Helical
NAB6064