



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.



* 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.



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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-incident (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 a 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 Lilon batteries. Nickel-based batteries will be fully charged in approximately 90 minutes (depending on battery capacity). Full charging of Lilon 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 interspersed 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



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



WPLN4187

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



WPLN4192

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



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**



EN1006



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

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 Lilon 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, Lilon compatible)
- WPPN4085 Lilon 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



PMLN4620



ENMN4013



PMMN4021 Remote Speaker Microphone



AZRMN4022 2-wire Surveillance kit



0180358B38
AZRMN4045
BDN6677

Remote Ring PTT Switch
VOX/PTT Radio Interface Module
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

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

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

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

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



AZRMN4018



AZRMN4032



AZRMN4020



RMN5015



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 (Beige)
- 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 (Beige)
- 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

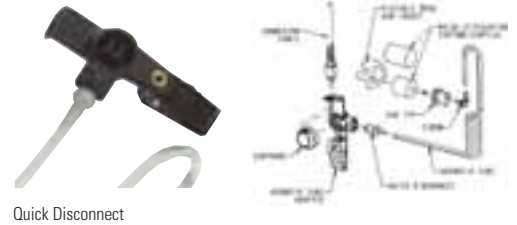
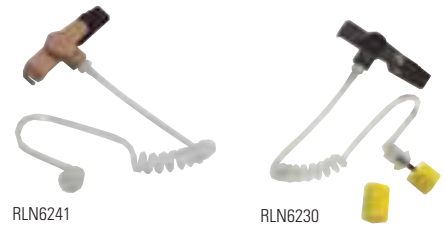


ENMN4017

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.

- 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



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.

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



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)



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.



RMN5048

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

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
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OTHER BAND

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





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