

MP50 PNG Transceiver



The MP50 is the high-end transceiver of the (PNG) wireless intercom system. MP50 has HEMS, SAR, CSAR and special mission operations in mind. The ruggedized device is waterproof according to IP68 and is submersible down to 3m/9ft. The MP50 is smartly designed in a rugged full metal housing that enables reliable operation in demanding environments. AXNES PNG utilizes state-of-the-art software-defined radio technology working in the UHF band for intercom functions.

The MP50 is a dual band transceiver, incorporating also maritime VHF band to increase the communication ability of the outside crew to other resources. Using maritime VHF will add safety for outside crew during over water operations. As an option, the MP50 can

be equipped with an integrated maritime AIS SART distress beacon. A crewmember in an emergency may activate the AIS beacon and be located and supported by all aircraft and/ or vessels in his vicinity.

To increase operational safety, the MP50 is equipped with a 46 channel GPS receiver. This allows fast and precise location of MP50 equipped crewmembers. Positioning data is transmitted via a secure data channel, to the aircraft or vehicle and may be displayed on moving map or mission displays.

For added safety the MP50 is equipped with voice cueing so that any setup change is announced orally to the user.

Main Features:

- Noise Cancelling: Unmatched noise canceling, enabling enhanced VOX function
- NIVOX Mode; A patented algorithm provides Non Interrupted VOX mode operation
- PTT Mode: Pressing a single button takes the unit from VOX to PTT if desired
- LOCAL Mode: The external microphone provides communication between victim and rescuer without helmet removal
- Walkie Talkie: The MP50 changes to walkie talkie mode when the headset / helmet is disconnected
- PTT-2 enables direct relaying through aircraft or vehicle mounted C4 equipment
- Advanced Echo cancelling enables un-delayed side tone on long transmission paths

Main Technical Specs:

- Inherent secure com with option to add AES 256 or embedded hardware encryption
- Supports all common aircraft headsets, including dynamic, amplified and carbon level mikes
- Battery time up to 15 hours of mission operation, 40 hours of stand-by operation
- Optional AIS distress beacon integrated
- GPS position reporting
- AXNES adaptive noise cancelling
- Dual Band operation (UHF and VHF band channels)
- Waterproof IP68 - 3 meters/10 feet for 30 min

Part Numbers and Variants:

MP50 SAR Transceivers

Part Number	Description	Remarks:
MP50 Main Unit:		
AXS-HH-D0100-N-C0	MP50 handset transceiver, NVG, Dual Band, Yellow	
AXS-HH-D0100-N-C2	MP50 handset transceiver, NVG, Dual Band, Green	
AXS-HH-D0100-N-C3	MP50 handset transceiver, NVG, Dual Band, Black	
MP50 Antennas:		
AXS-ANT-0200	PNG Handheld Antenna 156-163MHz/390-400Mhz	
AXS-ANT-0210	PNG Handheld Antenna 156-163MHz/400-410Mhz	
AXS-ANT-0220	PNG Handheld Antenna 156-163MHz/410-420Mhz	
AXS-ANT-0230	PNG Handheld Antenna 156-163MHz/420-430Mhz	
AXS-ANT-0240	PNG Handheld Antenna 156-163MHz/430-440Mhz	
AXS-ANT-0250	PNG Handheld Antenna 156-163MHz/440-450Mhz	standard
AXS-ANT-0260	PNG Handheld Antenna 156-163MHz/450-460Mhz	
AXS-ANT-0270	PNG Handheld Antenna 156-163MHz/460-470Mhz	

Remark: Main Unit, Software, antenna and optional features (if required) need to be ordered separately.