

# MP30 PNG Transceiver

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The MP30 is the most versatile transceiver of the PNG product family. The MP30 was designed with demanding tactical missions in mind. The unit provides a rugged full metal housing that enables reliable operation in demanding environments such as mud, heavy rain or snow.

AXNES PNG wireless intercom utilizes state-of-the-art software-defined radio technology working in the UHF band. A flexible and short rubber antenna was specifically designed for the MP30 and provides, in combination with its high-tech radio an impressive and unmatched range. Due to its unique noise cancelling technology and NIVOX® the MP30 can be used in extremely loud environments without pressing the PTT button to open the microphone.

To increase operational safety, the MP30 can, as an option, be equipped with a highly sensitive 46 channel GPS receiver. This allows fast and precise location of MP30 equipped crewmembers. This position data is transmitted via secure data channel and can even be

triggered by an operator in the platform where the intercom is installed. The position data of outside crew members can be provided to other on-board systems like moving maps or mission displays.

The MP30 can be equipped with a Bluetooth® module, to connect the transceiver to mobile devices like cell phones or tablet computers.

MP30 is equipped with "Voice Tagging", all changes on the transceivers such as mode, channel, VOX-PTT etc. will be announced via aural feedback messages in the user's headset/helmet. Also, status messages will be voice tagged such as "battery low" or connection status. Thanks to voice tagging the user will get change confirmation without visually focusing on the device and will recognize unintended changes immediately.

- Qualified according to DO-160G
- Delivered with a Certificate of Conformity (CofC)

**Technical spec MP30**

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Radio: UHF Duplex, single frequency UHF duplex analog.  
VOX operation: Axnes AS patented NIVOX noise cancellation  
Number of wireless users/groups: Unlimited/2  
Encryption: Inherent secure com based on AES 256, FIPS 140-2, or embedded hardware encryption  
Charging temperature: 0°C to +50°C  
Water resistance: EN 60629 IP68  
NVG: Optional NVIS class B friendly

**Power supply**

Supply: Internal rechargeable Li-Ion 3.6V 4700mA battery  
Operating time (typical): Standby 30hr, transmit 7hr, receive 12hr  
Charging time (typical): 3 hours  
Protection: Protection against input voltage polarity swap, over-charge, over-discharge, over-currents, over- and under-temperatures.  
Note: All times given will be affected by battery temperature

**Headset Interface**

Speaker output level: Adjustable up to 0.5W in 8 ohm load, 1KHz test signal.  
Speaker signal is ground ref. allowing for single end headsets  
Supported Microphones: Dynamic, electret, amplified Electret with aut. Mic detection  
PTT control: Support for external PTT input (Amphenol connector variant)  
Configuration: CAN-Bus interface for configuration  
Power out: Aux 5V current limited pwr available

**MP30 mounted connectors  
(model dependent)**

Headset: US Nato female socket TJT 120 (U174 compatible)  
164 series 6 pin 164-183S-6 Lemo FAW.2B.314.XLN  
Antenna: SMA female

**Radio characteristics**

Frequency: UHF: 397-470 MHz (customer configurations)  
25 KHz  
Modulation: FM, 16QAM, 8PSK  
Frequency stability: <5 ppm  
Output power: 30-400 mW (nom 400mW)  
Antenna impedance: 50 Ω

**GPS**

Operation: Remote activation  
GNSS: GPS  
GPS channels: 48  
Time to First Fix: < 1s hot start, < 35s cold start  
Sensitivity: 155 dBm tracking, -140 dBm cold start

**Dimensions**

Physical dimensions: 144 x 68 x 38 mm 400g  
Material: Aluminium 6082-T6 / 6060-35-T6 (Salt Water Resistant) Silicon rubber details  
Colour: Available in olive green or black.

Note 1: The following birdie frequencies should be avoided if possible because of reduced receiver sensitivity: 408, 420, 432, 444, 450, 456, 468 MHz.