

MP30 PNG Transceiver



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 48 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

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.
Supported Microphones:	Speaker signal is ground ref. allowing for single end headsets
PTT control:	Dynamic, electret, amplified Electret with aut. Mic detection
Configuration:	Support for external PTT input (Amphenol connector variant)
Power out:	CAN-Bus interface for configuration 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 LemoFAW.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.