## nautel

# NS72-36 Hull Mounted Sonar Amplifier

**Low Frequency Amplifiers** 

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#### **OVERVIEW**

The NS72-36 amplifier is a drop-in replacement for in-use hull mounted sonar units. It features 36 amplifier modules in a single 72" high rack package to deliver 36 channels in the same footprint as the original amplifier and power supply. The unit is 50% lighter and 40% less volume than original amplifiers or other replacement amplifiers. Additional channels can be added if required.

The NS72-36 has analog and optional digital audio inputs to work with any existing controller system, plus an optional IP port to operate as a network-controlled sonar transmitter. Configurable alarms are included.

Nautel HMS transmitters achieve their light weight by using switch mode power supplies (SMPS). State-of-the-art silicon carbide FETs deliver 2 kW per channel capability at high efficiency. Standard output bandwidth is 2 KHz to 12 KHz, with options to extend the range up or down. Overall efficiencies of 85% result in low cooling requirements.

These amplifiers meet or exceed warship environmental requirements with partial/typical MIL STD shock, vibration, EMI and power supply filtering testing. A compliant shock absorber base is required for most installations. Servicing of all modules is conveniently performed through the front door panel.

Nautel's customer care philosophy results in a long and reliable life expectancy for our amplifiers – we continue to provide industry leading customer support for every product from our 47 years in business.



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### **GENERAL**

KW power rating	2.0 kW/channel, 36 channels amp
Full power duty cycle	< 30%
Nominal output impedance	200 ohms
Optional load matching	Yes
Power Supply package	SMPS
Input power	440V, 3 Ph, 60 Hz, AC
Energy Storage option	No
Frequency range	2 KHz to 12 KHz
Extended Frequency options	Yes
Handle Reactive loads	Yes
Package Weight Savings, Typical	50%
Package Volume Savings, Typical	40%
Exciter	PWM Class D
Analog and digital inputs	Yes (digital options)
IP connection ready	Optional
V and I data outputs	No
Configurable alarms	Yes
30 minute MTTR	PA/SMPS modules
Front maintenance access	Yes
Ambient Temperature	Typical ship
Air cooled	Yes
Water cooled	Optional
Silicon Carbide FETS	Yes
Error lookup data table	Yes
Maintenance USB computer port	Yes

### **ENVIRONMENTAL**

MIL-STD-901D shock	1/2 sine pulse , G TBD
MIL-STD-167-1A Mechanical Vibration	Yes
MIL-STD-1399 Interface Standard	Yes
MIL-STD461E Requirements for control of electromagnetic interference, August 1999	Yes TBD
Shock compliant base required	Yes
Optional SQR 510 Interface	Yes