

bhi

# NEDSP1061 Noise Cancellation Modules



**For all voice and radio  
communications equipment**

# bhi Noise Cancellation Products greatly improve The clarity and quality of speech in radio and voice communications

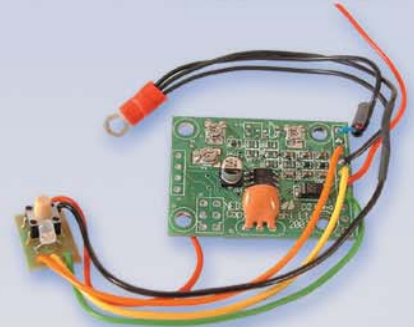
## Description:

The **bhi NEDSP1061** Noise Eliminating Module is a small, compact, easy to install printed circuit board (pcb) module that removes unwanted background noise and interference in all types of voice and radio communications, to leave clear speech. Using unique Digital Signal Processing (DSP) technology, the pcb module works out the whether the signal has any noise present with the speech. The noise part is then removed - the amount of noise removed being adjustable depending on the filter level setting (65% - 98%). The resulting speech signal remains virtually unaltered. The system is fully adaptive and adjusts itself continuously to changing environmental conditions.

Its small size and variety of connection options makes the module suitable for a wide range of applications. The DSP noise cancelling can be pre-set or switched remotely. The module can be fitted into the audio transmit or audio receive path and has up to 8 filter levels, input and output sensitivity controls and a wide audio bandwidth for natural sound. There are two types of module: The basic pcb module has board connections on a 0.1" pitch, and can be mounted vertically, horizontally or wired-in to suit the specific application. The keyboard (KBD) version comes pre-wired and has single button control of all its functions, enabling the user to install the module very quickly. Both modules are suitable for new designs or retrofitting into existing equipment, and come supplied with comprehensive fitting instructions.



PCB version



Keyboard version

## Typical applications:

- ✓ Emergency services communications
- ✓ Military and covert communications
- ✓ Audio restoration
- ✓ Transport communications
- ✓ Hands free kits
- ✓ PMR radio
- ✓ Amateur radio
- ✓ HF,VHF,UHF communications
- ✓ Marine communications
- ✓ Surveillance, CCTV and security
- ✓ Intercoms

## Specifications:

- |   |                       |              |
|---|-----------------------|--------------|
| ■ Fully adaptive DSP noise cancelling (up to 98%) | ■ Supply Voltage      | 5 - 15VDC    |
| ■ Up to 8 noise filter levels                     | ■ Input signal        | >50mV        |
| ■ Input level control with LED                    | ■ Output load         | >2Kw         |
| ■ Output level control                            | ■ Current consumption | 45mA         |
| ■ Size 37 x 26 x 12 mm                            | ■ Audio bandwidth     | 50 - 4600 Hz |
| ■ Simple installation                             | ■ Noise reduction     | 9 - 35dB     |
|   | ■ Tone reduction      | 4 - 65dB     |



**Order code:**  
PCB version  
NEDSP1061-PCB

**Order code:**  
Keyboard version  
NEDSP1061-KBD

**bhi Ltd**  
22 Woolven Close  
Burgess Hill  
RH15 9RR, England

Tel: +44 (0)845 217 9926  
Fax: +44 (0)845 217 9936

Instructions available for the following  
Transceivers/receivers:  
**Yaesu FT817 & FRG100**  
**Kenwood TS50 & TS440**  
**Alinco DX-77**  
**Icom 706 MKII G & 736/738**  
**Realistic DX-394**

[www.bhi-ltd.co.uk](http://www.bhi-ltd.co.uk)  
[sales@bhi-ltd.co.uk](mailto:sales@bhi-ltd.co.uk)