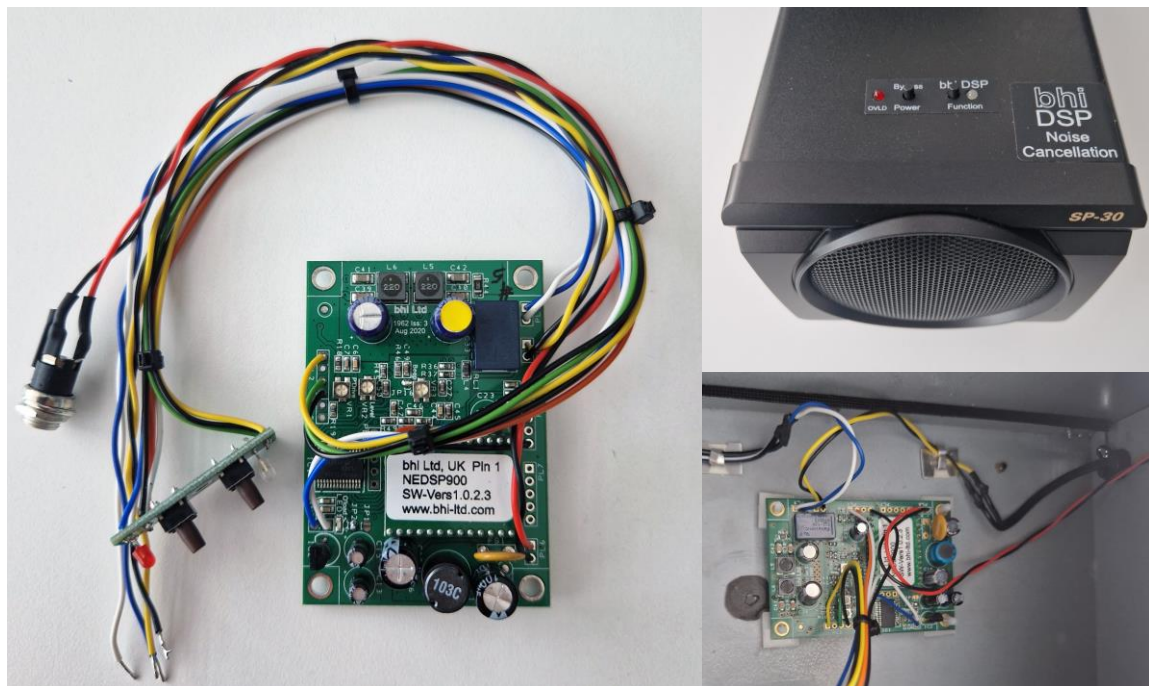


## **New NEDSP1962-KBD**

### **5W DSP Noise Cancelling Speaker Retrofit Module**

*Give your extension speaker a boost with this easy to install bhi DSP noise cancelling retrofit module!*



#### **Description:**

The **new NEDSP1962-KBD** amplified DSP noise cancelling retrofit module can be retrofitted into many amateur radio extension speakers or older style radios (space permitting). The module incorporates DSP noise cancelling technology that identifies speech in noisy voice signals and removes the noise to leave clear speech. The module provides up to 40dB of noise reduction over 8 filter levels and up to 65dB of heterodyne tone reduction. It comes pre-wired and can be easily fitted into existing equipment, with all functions being controlled by a simple keyboard switch assembly. The **NEDSP1962-KBD** uses a powerful programmable DSP audio processing chip with DSP noise cancelling technology inside. This high-performance chip delivers exceptional sound quality and incorporates a full audio signal chain with 16-bit A/D converters and digital interfaces utilising fully flexible digital processing architecture. The onboard 5W Class D type audio amplifier is very efficient so no heatsink is required. The module is simply wired inside your extension speaker between the audio input and loudspeaker. It is powered from a suitable 10 to 18V DC power supply and when the module is switched off the audio bypass feature routes the audio signal directly through to the loudspeaker. The pre-wired switch assembly controls all the functions with two pushbuttons and two LED'S indicating the filter level and audio input overload. The **NEDSP1962-KBD** is supplied as a pre-wired assembly with a 2.1 mm power socket, audio input and output wires, keyboard switch assembly and full mounting kit with professional labels and user manual.

# ***Don't put up with noise and interference any longer!***

## **Features:**

- 4/8 levels of noise cancellation 9 to 40dB
- Last known setting stored in memory
- Connects into loudspeaker path with just 4 wires
- Audio bypassed when switched off or power removed
- 5 Watts power output
- Supply voltage 10 - 18Vdc (400mA max)
- Size 70 x 50 x 12 mm
- Low distortion to signal
- Up to 65dB tone rejection
- Easy to install - full mounting kit included including professional labels
- Audible and visual indication of mode of operation

## **DC Characteristics**

Parameter	Test Conditions	Min.	Typ.	Max.	Units
Supply Voltage		10	16	18	V
Quiescent Current	Vs = 10 V to 18 V	5.4		7	mA
Quiescent current with DSP On, no load and no signal	Vs = 10 V to 18 V	70		80	mA
Current at Max Audio			400mA		

## **Audio Characteristics**

Parameter	Test Conditions	Min.	Typ.	Max.	Units
Output Power	Vs = 10 V to 18 V	5		7	W
Input Sensitivity	f = 1kHz, On – No DSP	100		400	mV (p-p)
3dB BW	DSP Off	200		5000	Hz
Distortion	f = 1kHz, Pout = 7 W, RL = 4Ω			0.3	%
Input Resistance	When operating		62		Ω
Voltage Gain	f = 1kHz			16	
Efficiency	f = 1kHz Po = 0.5 W		>80		%

Order code: **NEDSP1962-KBD**

Optional extra: **PSU12-2A-WW**