

# TN6232

## Ultra-Fast and Fully Automatic Dual-Channel Feedback Suppression Processor



### Features

- Dual-channel feedback suppression processor designed for fully automatic and zero-configuration setup
- Offers up to 10 dB increase in system gain
- Instantly detects and stops acoustic feedback. Highly effective with both speech and music
- Ultra-fast and highly accurate DSP selects and applies up to 32 filters per channel
- Two fully independent audio channels to process stereo or separate zone signals
- Extremely narrow filters (up to 1/30th octave) to retain overall signal integrity
- Two balanced/unbalanced inputs on combination line level XLR/TRS and 3-pin Euroblock connectors
- Hinged front door panel covers the control surface featuring suppression and filter reset buttons plus the power switch
- Rack ear screw covers, IEC-type AC power cord and all mating Euroblock connectors included
- Ultra-light, ultra-low noise and ultra-efficient switch-mode power supply for noise-free audio, superior transient response and low power consumption
- High-quality components and exceptionally rugged construction ensure long life

### Product Overview

The TN6232 professional dual-channel feedback suppression processor is the latest state-of-the-art advancement from BEHRINGER, one of the world's leading manufacturers of feedback suppressors. From conference rooms to concert halls, any venue with a sound reinforcement system will benefit from TN6232's unprecedented performance and value.

In designing the TN6232, our engineers have delivered fully automatic feedback suppressor that requires no advance setup or tuning. Functioning in real time, and with detection accuracy to within one-sixth of a cycle, the TN6232 is an elegant, "plug and play" solution to one of live sound's most vexing problems. Say goodbye to feedback forever with the EUROCOM TN6232.

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### Technical Specifications

#### Audio Inputs

- Connections 2 x XLR / TRS combo  
2 x 3-pin Euroblock
- Input impedance appr. 10 k $\Omega$
- Normal input level +4 dBu
- Max. input level +22 dBu

#### Audio Outputs

- Connections 2 x XLR  
2 x 3-pin Euroblock
- Output impedance appr. 120  $\Omega$
- Normal output level +4 dBu
- Max. output level +22 dBu

#### System Information

- Controls Power on / off  
Suppression (momentary)  
Filter reset (momentary)  
Indicators Behringer logo  
(Power on)  
Active  
Bypass  
Reset
- Frequency response 20 Hz – 20 kHz,  $\pm 0.5$  dB
- Dynamic range 102 dB A-weighted,  
> 100 dB audio filter
- THD+N < 0.1% @ 20 Hz – 20 kHz
- Crosstalk < -100 dB, -120 dB typical
- S/N Ratio  $\geq 100$  dB
- CMRR > 45 dB
- Processor system gain 0 dB
- Additional acoustic gain 10 dB

#### Digital Signal Processing (DSP)

- Converters 24-bit
- Sample rate 48 kHz
- Feedback Suppressor (FBQ)
- Feedback reduction method Automatically detect and apply notch filter
- Filters 32 independent digital notch filters per channel
- Filter width min. 1/126th octave,  
max. 1/38th octave
- Resolution 0.2 Hz
- Time to find one 100 – 400 msec feedback mode
- Time to find multiple 2 – 4 sec feedback modes
- Type Auto-switching power supply
- Mains voltage (all regions) 100 – 240 VAC, 50/60 Hz
- Fuse T 1.25 A H 250 V
- Power consumption appr. 10 W
- Mains connector Standard IEC receptacle

#### Dimensions/Weight

- Dimensions (H x W x D) appr. 1.7 x 19 x 7.6"  
appr. 44 x 482 x 192 mm (1U)
- Weight appr. 4.6 lbs / 2.1 kg

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### Architect's and Engineer's Specifications

The automatic feedback suppressor shall be a dual-channel digital signal processor with thirty-two (32) 1/30th octave filters per channel. The filters shall be of the processor-controlled variable Q type (filter skirts narrow and widen at the discretion of the processor).

The device may be used on selected insert points, sub-groups, monitor feeds, or the entire mix. It shall detect feedback, determine the offending frequency, and then assign a notch filter to eliminate the feedback automatically. The device shall continue to provide this function throughout the program or performance, and shall use dynamic notch filters, which will be automatically assigned to new frequencies should feedback occur during the program. The unit shall include: an Active/Bypass button with an LED indicator for each mode of operation, allowing the user to set the unit to control feedback (active mode) or remove the device from the signal path (bypass mode); and a Filter Reset button with LED indicator, so all filters may be re-configured.

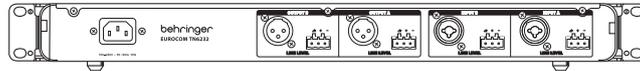
The product shall be equipped with a rear-mounted power switch, an power socket configured to operate at 115 VAC, balanced and unbalanced inputs on 3-pin Euroblock and combination ¼" TRS / XLR-3 connectors, with balanced and unbalanced outputs on both 3-pin Euroblock and XLR connectors. The automatic feedback controller shall be the EUROCOM TN6232 Feedback Suppressor.

(Specifications Subject to Change Without Notice)

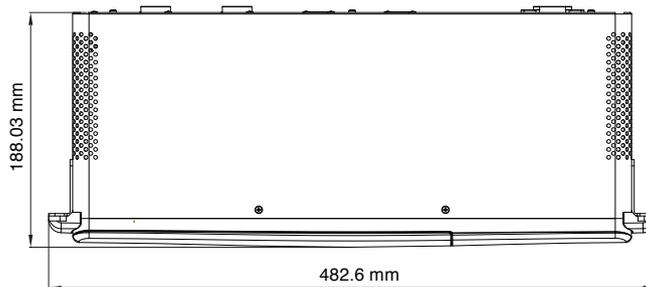
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### Dimensional Drawings:



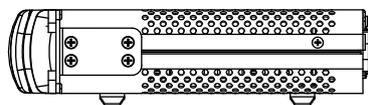
REAR



TOP



FRONT



SIDE