

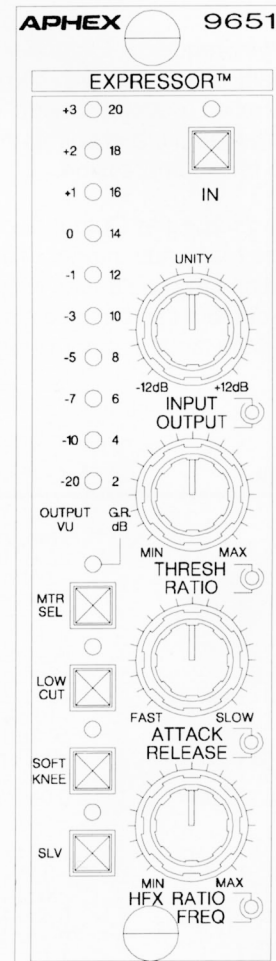
Expressor™ Compressor/Limiter Module Model 9651

The perfect manual compressor/limiter for individual tracks. The 9651 features a transparent audio path with full controls ... attack, release, threshold, ratio, and input and output. In addition to compression and limiting, the 9651 lets you get the "sound" you were looking for, but could not find! "Punch, slap, pump or squeeze"... get it clean with fully adjustable controls and unparalleled audio performance. Servo-balanced input and output allow use in any audio environment.

The "HFX" (*High Frequency Expander™*), an exclusive feature of the Expressor, compensates for the "dullness" usually associated with compression and limiting. The HFX perfectly tracks the compression, permitting controlled "decompression" of the high frequencies up to a maximum of 6dB. The expansion has user adjustable ratio and corner frequency. The result is to dynamically maintain air and brightness even with high ratio compression.

Features/Controls

- Input and Output to Match Any Operating System
- Attack
- Release
- Ratio
- High Frequency Expander "HFX"
- Soft or Hard Knee Compression
- Link/Slave/External Sidechain
- Low-cut Filter on Sidechain
- Bargraph Output Level Meter (switchable -10 or +4dB)
- Bargraph Gain Reduction Meter
- Relay By-Pass
- Aphex VCA1001
- Fits Aphex 9000 Rack or Compatible dbx 900 Series Rack



Applications

- Tracking, Mixing, Mastering
- P.A. Systems and Sound Reinforcement
- Fixed installations
- Voice Processing
- Tape Duplication
- Post Production

Aphex Expressor

Compressor/Limiter Module

Model 9651

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Servo-Balanced Input and Output Circuitry; Although more costly than conventional designs, servo balancing offers many advantages. The servo-balanced input circuit absorbs high common mode voltages found on long cable runs without sacrificing headroom. The servo-balanced output is not only short circuit proof, but can be used single ended at any time without the usual 6dB loss of conventional circuits. To use the input or output single ended (unbalanced) the user need only ground the unused signal pin.

Specifications

INPUT

Type:	Transformerless, RF-filtered, true-instrumentation, differential servo-balanced
Impedance:	22 k Ω balanced, 11k Ω unbalanced
Maximum Input Level:	+27dBm
CMRR:	Greater than 60dB 20Hz to 10kHz

OUTPUT

Type:	Transformerless, RF-filtered, differential servo-balanced
Output Impedance:	65 Ω balanced/unbalanced
Maximum Output Level:	+25 dBm balanced, +21 dBu unbalanced
Dynamic Range:	110 dB
Bandwidth:	\pm 0.5dB from 5 Hz to 100kHz
Hum and Noise @ Unity Gain:	-85 dBm
THD @ +4 dBm:	0.006%
IMD (SMPTE) @ +10 dBm:	0.006%

CONTROLS

Input Range:	-20 to +17dB
Output Range:	-9 to +17dB
Threshold:	-20 to +20 dBm
Attack Time:	0.5 to 100 ms
Release:	0.4 to 4 s
Ratio:	1.1:1 to 50:1
HF Expander	
Ratio:	0:1 to 1:1
Frequency:	2kHz to 20kHz

OTHER SPECIFICATIONS

Power Requirements:	\pm 15 Volts DC
Power Consumption (maximum):	171mA
Dimensions:	Board: 4.5" H x 9.5" D; Front Panel: 5.25" H x 1.5" W
Shipping Weight:	1 lbs.
Net Weight:	<1 lbs.

LINE DRAWINGS AND ARCHITECTURAL SPECIFICATIONS AVAILABLE ON DISK.

Patent Pending. Expressor is a registered trademark of Aphex Systems Ltd.

APHEX

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