

STEREO GENERATOR AND AUDIO PROCESSOR COM LIM 50

The **COM LIM 50** audio processor is the combination of a professional digital stereo generator (with more than 65dB channel separation) and a high-dynamic limiter, with stop band rejection higher than 90dB above 75KHz. A 5-band equalizer is integrated, too. All these advanced characteristics give the COM LIM 50 an outstanding range of professional features, really useful in radio studios. It also includes RDS/RBDS digital encoder, and programming, visualization and control through LCD display.



GENERAL CHARACTERISTICS

WEIGHT	3Kg approximately
DIMENSIONS	1 standard rack unit of 19", 434x351x44mm
AC RATE	230VAC/110VAC, 50Hz/60Hz, 30VA
PROCESSING	Fully digital, based on DSP 24bit/100MHZ. Signal processing is performed by phase linear filter
OPERATING TEMPERATURE	-5 to +55°C

ANALOG INPUT MODULE

A/D CONVERSION	24bit
CONNECTORS	XLR (F) electronically balanced
AD CLIPPING POINT	+20dBu
OPERATIVE NOMINAL LEVEL	-12dBu to +12dBu (0.1dBu steps)
LINE IMPEDANCE	10 KOhm (electronically balanced selectable), EMI suppressed
DISTORTION	<0.01% TDH+NOISE (0.0dBu 1KHz)
AD DYNAMIC RANGE	108dB RMS
INPUT MODES	Stereo, Mono (left), Mono (right), Mono (left+right)

DIGITAL INPUT MODULE

CONNECTORS	XLR (F) electronically balanced
FORMAT	AES3/EBU
SAMPLE RATES	32KHz/44.1KHz/48KHz/64KHz/88.2KHz/96KHz with SRC and jitter correction
OPERATIVE NOMINAL LEVEL	From 0.0dBFs to -24dBFs (0.1dBu steps)
DYNAMIC RANGE	125dB (typical), 122dB (minimum)
DISTORTION	<0.01% TDH+NOISE (0.0dBu 1KHz)
INPUT MODES	Stereo, Mono (left), Mono (right), Mono (left+right)

ANALOG OUTPUT MODULE

D/A CONVERSION	24bit
CONNECTORS	XLR (M) electronically balanced
OUTPUT LEVEL	-12dBu to +14dBu (0.1dBu steps), +19dBu maximum
IMPEDANCE SOURCE	10 Ohm
LOAD IMPEDANCE	600 Ohm or greater
DISTORTION	<0.01% TDH+NOISE (0.0dBu 1KHz)

DIGITAL OUTPUT MODULE

CONNECTORS	XLR (M) electronically balanced
FORMAT	AES3/EBU
SAMPLE RATES	32KHz/44.1KHz/48KHz/64KHz/88.2KHz/96KHz with SRC and jitter correction
RESOLUTION	16 bits, 20 bits, 24 bits
OPERATIVE NOMINAL LEVEL	From 0.0dBFs to -24dBFs (0.1dBu steps)
DYNAMIC RANGE	125dB (typical), 122dB (minimum)
DISTORTION	<0.01% TDH+NOISE (0.0dBu 1KHz)
INPUT MODES	Stereo, Mono (left), Mono (right), Mono (left+right)

REMOTE INTERFACE

DIGITAL INPUTS GPIN	4xGP inputs, opto-coupled
DIGITAL OUTPUTS GPOUT	4xGP outputs, open collector opto-isolated
SERIAL INTERFACE	1xRS-232 serial protocol ports, EMI filtered
USB	1xuniversal serial BUS port, B type, EMI filtered
ETHERNET PORT AND PARSE ASCII PROTOCOL	Ethernet port by option, over RJ45 connector with web server interface

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MAIN ADVANTAGES

GENERAL

Audio processor of 5 bands
24 bits, 120MHZ and DSP-based audio process
Stereo generator and MPX encoder
Optional RDS encoder

INPUTS AND OUTPUTS

Analog XLR in/out
Digital AES/EBU XLR in/out
2 BNC MPX out and 2 BNC AUX in
Hardware bypass in/out, XLR/XLR-BNC/BNC
MPX Split mode

AUDIO MANAGEMENT

5 bands management
3 bands equalizer
Remote preset changer
Final limiter drive
Test tone generator
Brilliance control
Double band AGC (LOW/HIGH)
AGC control
AGC power control
Audio fault input changeover
MPX ITU-R BS.412 control
Stereo enhancer
Limiter look ahead mode
Expander (noise reduction)
Overdrive power control
Super bass control

REMOTE CONTROL

SubD 15p HD 4xGP in opto-coupled, 4xGP out open collector opto-isolated
1xUSB (B type), EMI filtered
1xRS232, EMI filtered
Ethernet port/Webserver
Parser ASCII protocol via TCP/IP UDP/IP

** The images and/or technical specifications are subject to change without previous notice.*

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