

# 262

## Dual-Mode Stereo Audio Processor



The Inovonics NOVA series offers a compact, economical solution to a host of broadcast audio processing requirements.

The NOVA 262 is a dual-mode device. The 'FM mode' provides comprehensive program-audio airchain processing when multiplex encoding is provided by the FM exciter. Equally at home in the studio, the 'flat mode' serves a variety of routine production-studio needs such as microphone channel 'signature' processing and STL/link protection.

The NOVA 262 combines 'gain-riding' AGC, leveling, parametric EQ, multiband compression and either flat-bandwidth or pre-emphasized final limiting.

In addition to quick and easy front-panel setup, the IP interface allows 2-way program streaming, plus total remote control of the NOVA 262 with any PC or mobile device. SNMP operation is supported.

Program audio failure alarms trigger local tally closures and instantly dispatch SMS/email notifications to selected personnel. Alarms are also logged for later analysis.

Setup and operation are simplified with 10 factory processing presets, 10 additional presets may be user-defined. An internal real time clock allows day-parting or 'signature' processing based on a schedule.

(optional rack adapter)



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## FEATURE HIGHLIGHTS

- All-digital, DSP-based design; internal scheduler, instant boot, non-volatile preset memories
- Accepts analog, AES-digital and streaming program inputs; streams processed audio for remote monitoring and program verification
- Failover feature may be programmed to switch to alternate sources when audio is lost
- Assignable GPIOs plus full IP connectivity for remote control, SNMP and streaming I/O
- Gated and 'windowed' AGC and 'syllabic' leveling for program consistency, parametric EQ, adjustable bass 'punch' enhancement and 3-band compression with selectable crossovers
- Tight broadband peak control plus independent pre-emphasis protection limiting in FM mode
- A wide range of factory processing presets plus custom user-presets

## SPECIFICATIONS

### Frequency Response: (processing bypassed)

**Flat mode (analog I/O):** 50Hz - 20kHz,  $\pm 0.25$ dB

**Flat mode (digital I/O):** 20Hz - 20kHz,  $\pm 0.05$ dB

**FM mode:** 50Hz - 15kHz,  $\pm 0.25$ dB; 75 $\mu$ s/50 $\mu$ s pre-emphasis in normal operation

### Distortion: (processing bypassed)

**Analog I/O:** <0.02% THD (ref: +24dBu I/O)

**AES Digital I/O:** <0.002% THD (ref: 0dBFS I/O)

### Signal-to-Noise: (processing bypassed)

**Analog I/O:** >105dB (ref: +24dBu I/O)

**AES Digital I/O:** >120dB (ref: 0dBFS I/O)

### Separation:

**Analog I/O:** >100dB, 20Hz - 20kHz

**AES Digital I/O:** >140dB, 20Hz - 20kHz

### Program Line Inputs\*:

**Analog:** active-balanced (XLR) accepts line levels from -15dBu to +15dBu; +24dBu clipping

**AES Digital:** (XLR) accepts line levels between -30dBFS and 0dBFS at sampling rates from 32kHz to 96kHz

**IP Streaming:** accepts all Icecast/SHOUTcast MP3, Ogg and AAC streams

### Program Line Outputs\*:

**Analog:** active-balanced (XLR) delivers -12dBu to +18dBu for 100% modulation; +24dBu clipping, 200 $\Omega$  source

**AES Digital:** balanced (XLR) delivers -30dBFS to 0dBFS at 100% modulation; selectable sampling rates of 32kHz, 44.1kHz, 48kHz, 96kHz

**Characteristic:** outputs may be set for flat or pre-emphasized response in FM mode

### Program Signal Latency (Delay):

1.5ms in bypass, 3ms analog I/O, 3.5ms digital I/O (typical)

### Network Port:

TCP/IP network connection (RJ45) for remote setup/operation and in/out audio streaming; full support for SNMP control

### GPIO Ports:

3 GPI, 3 GPO with assignable functions and logic polarity

### Headphone Jack:

Front-panel (TRS) 3.5mm

### Internal Test Tone Generator:

20Hz - 20kHz; variable frequency and level

### Alarms:

Local (GPIO) closures, browser interface, SNMP and SMS/email alarms for analog, digital and stream audio loss; maintains daily, weekly, monthly logs

### Scheduler:

Dayparting or 'signature' processing (e.g. talent microphone) is simplified with an onboard real-time clock and setup-preset programming

### Audio Processing:

**AGC:**  $\pm 15$ dB capture range; gated with dual-rate 'windowed' operation

**Leveling:** variable 'syllabic' 2:1 compression

**EQ:** 4-sections of parametric equalization

**Bass 'Punch':** variable bass enhancement

**Compression:** 3-bands with selectable crossovers, variable master and individual band drive controls, plus r.m.s./peak 'density' adjustment

**Final Peak Control:** no-clip feed-forward wideband limiting with independent high frequency protection for FM mode

### Power Requirement:

12VDC at 280mA (2.1mm x 5.5mm coaxial); inline switchmode power supply included

### Mounting Options:

An optional rack adapter mounts one or two NOVIA or other Inovonics half-rack units in a standard 19-inch, 1U rack space

### Size and Weight:

1.6"H x 8"W x 6"D; 5 lbs shipping weight

### \*NOTE:

ANALOG & DIGITAL I/Os ARE NOT AVAILABLE SIMULTANEOUSLY

