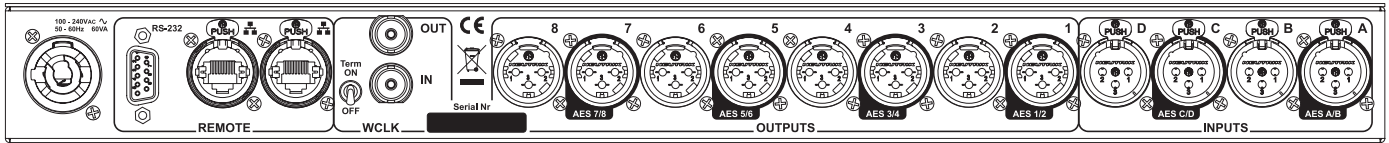
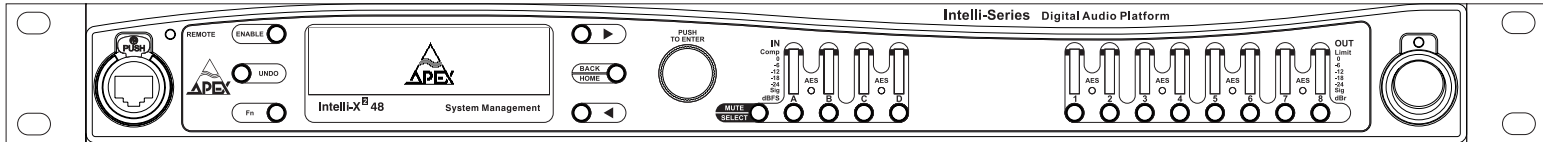




Intelli-X² 48

System Management

D a t a s h e e t _____



Featuring internal processing up to 192 kHz as standard, high-end studio-grade analogue circuit designs and mastering-grade compressors, the new Intelli-series sets the new benchmark in system management and speaker processing design.

Whether the application is for a standalone system controller or crossover, configured using front panel controls, or a comprehensive wireless networked system for Stadium or Arena sized tours, the Intelli-X² is designed to provide the solution that our clients demand. With a comprehensive preset library provided as standard, implementing the Intelli-series into your system couldn't be easier.

Electrical specifications

Balanced line level inputs

- Connectors: 3-pin XLR (software switch-able between analog and AES-3)
- Type: electronically balanced
- Impedance: >10k ohms, balanced
- Common mode rejection: >90dB
- Max input level: 18, 21, 24 or 27 dBu software selectable, balanced, 1% THD+N
- Frequency response: 20 Hz - 20 kHz, ±0.5 dB
- THD+N: less than 0,005%, +4 dBu, 20Hz- 20 kHz, 22 kHz BW
- Dynamic range: 120 dB, 20 Hz to 20kHz, un-weighted at +21dBu headroom settings
- Crosstalk: >90 dB
- AD conversion: 24-bit, sigma-delta

Balanced line level outputs

- Connector: 3-pin XLR (software switch-able between analog and AES-3)
- Type: electronically balanced
- Impedance: <50 ohms, balanced
- Max output level: 15, 18, 21, 24 dBu software selectable, into 600 ohms, balanced, 1% THD+N
- Frequency response: 20 Hz - 20 kHz, ±0.5 dB
- THD+N: less than 0,005%, +4 dBu, 20Hz- 20 kHz, 22 kHz BW
- Dynamic range: 120 dB, 20 Hz to 20kHz, un-weighted at +21dBu headroom settings
- Crosstalk: >90 dB
- DA conversion resolution: 24-bit

AES-3 inputs

- Connector: 3-pin XLR (software switch-able between analog and AES-3)
- Type: transformer isolated
- Impedance: 110 ohms or 75 ohms selectable (internal jumper), balanced
- Supported formats: AES-3 and SPDIF up to 24-bit
- Supported sample rates: 32 to 192 kHz

AES-3 outputs

- Connector: 3-pin XLR (software switch-able between analog and AES-3)
- Type: transformer isolated
- Impedance: 110 ohms or 75 ohms selectable (internal jumper), balanced

Word-clock input

- Connector: BNC
- Termination: 75 ohms switch-able
- Input level: 1 to 10 Vpp

Word clock output

- Connector: BNC
- Impedance: 75 ohms
- Output level: TTL 5 Vpp



Electrical specifications

Digital processing

Sample rate:	44,1kHz, 48kHz, 88,2kHz, 96kHz, 176,4kHz or 192kHz selectable
Internal processing:	32-bit floating point
Input / output channel:	Intelli-X ² 26: 2 in x 6 out Intelli-X ² 48: 4 in x 8 out

Network remote control

Built-in Ethernet switch:	IEEE 802.3 10Base-T/100Base-TX
Connectors:	3 x Neutrik EtherCon, Auto MDI-MDIX
Protocol:	Proprietary UDP/IP based, SNMP

RS-232

Connector:	D-sub 9-pin female
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Mains

Connector:	Neutrik PowerCon
Voltage:	Auto-detect 100-240 Vac (+/- 10 %) – 50-60 Hz
Power consumption:	Intelli-X ² 26 < 60 VA Intelli-X ² 48 < 60 VA

Input channels functions

Gain:	-80 to +15dB, 0,1dB steps
Polarity:	normal / inverted
Delay:	
Duration:	0 to 1500ms, sample rate depend steps,
Distance:	0 to 500m
Temperature:	-20 to 50°C, 0,1° steps
Relative humidity:	0 to 100%, 1% steps
GEQ:	30-band ISO centred, +/-15 dB, proportional-Q or constant-Q mode selectable
PEQ:	
Bands:	12
Filter types:	Bell-Symmetrical, Bell-Asymmetrical, Notch, Low-Shelving 6dB/oct, Low-Shelving 12dB/oct, High-Shelving 6dB/oct, High-Shelving 12dB/oct, All-Pass 90°, All-Pass 180°, High-Pass 6dB/oct, High-Pass 12dB/oct, High-Pass Vari-Q 12dB/oct, Low-Pass 6dB/oct, Low-Pass 12dB/oct, Low-Pass Vari-Q 12dB/oct, Band-Pass
Frequency:	10Hz to 22kHz, 0,1Hz steps
Gain:	-40 to +15dB, 0,1dB steps (when applicable)
Q:	0,1 to 48, 0,01dB steps (when applicable)
Compressor:	
Threshold:	-80 to 0dBfs, 0,1dB steps
Ratio:	1:1 to 50:1, 1 steps
Knee:	hard or soft
Attack time:	0,5 to 100ms, 0,1ms steps
Release time:	5 to 5000ms, 0,1ms steps
Side-chain mode:	flat, high-pass or band-pass mode
Make-up gain:	-20 to +20dB, 0,1 steps

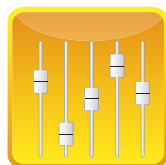
Mix matrix functions

Gain:	-80 to +15dB, 0,1dB steps
Routing:	enabled/disabled

Output channel functions

Delay:	
Duration:	0 to 1500ms, sample rate depend steps,
Distance:	0 to 500m
Temperature:	-20 to 50°C, 0,1° steps
Relative humidity:	0 to 100%, 1% steps
Driver alignment:	
Duration:	0 to 30ms, sample rate depend steps,
Distance:	0 to 10000cm, 0,1cm steps
Temperature:	-20 to 50°C, 0,1° steps
Relative humidity:	0 to 100%, 1% steps





Electrical specifications

PEQ:

Bands	12
Filter types:	Bell-Symmetrical, Bell-Asymmetrical, Notch, Low-Shelving 6dB/oct, Low-Shelving 12dB/oct, High-Shelving 6dB/oct, High-Shelving 12dB/oct, All-Pass 90°, All-Pass 180°, High-Pass 6dB/oct, High-Pass 12dB/oct, High-Pass Vari-Q 12dB/oct, Low-Pass 6dB/oct, Low-Pass 12dB/oct, Low-Pass Vari-Q 12dB/oct, Band-Pass
Frequency:	10Hz to 22kHz, 0,1Hz steps
Gain:	-40 to +15dB, 0,1dB steps (when applicable)
Q:	0,1 to 48, 0,01dB steps (when applicable)

High-pass and low-pass crossover:

Filter types:	Butterworth 6 to 48dB/octave, 6dB steps Linkwitz-Riley 12 to 48dB/octave, 12dB steps Bessel 12 to 48dB/octave, 6dB steps
Frequency:	10Hz to 20kHz, 0,1Hz steps
FIR filters:	
At 48 kHz:	5 x 1024 taps or 8 x 512 taps
At 96 kHz:	3 x 1024 taps or 8 x 512 taps
Gain:	-80 to +15 dB, 0,1 dB steps
Polarity:	normal / inverted
Limiter:	
Type:	Dual-stage, RMS + Peak limiter
RMS threshold:	-80 to 0 dBfs (or dBu equivalent), 0,1 dB steps
Peak threshold:	-80 to 0 dBfs (or dBu equivalent), 0,1 dB steps
RMS attack:	0,5 to 100 ms, 0,1 ms steps
Peak attack:	0ms
Release:	5 to 10000 ms, 0,1 ms steps

Environment

Operating	
Temperature:	0° to 50° C
Relative humidity:	10 to 60 %, non-condensing
Storage	
Temperature:	-20° to 70° C

Mechanical specifications

Dimensions

Unit		
Width:	483 mm (19-inch)	
Height:	43,6 mm (1,75-inch - 1U)	
Depth:	286 mm	
Package		
Width:	575 mm	
Height:	110 mm	
Depth:	355 mm	
Weight		
Unit (Nett):	Intelli-X ² 26	3,75 kg
	Intelli-X ² 48	3,75 kg
Package (Shipping):	Intelli-X ² 26	5,5 kg
	Intelli-X ² 48	5,5 kg