Description

The POPE Professional® XT-4040 is our most complete fixed architecture digital processor with a focus on audio performance, FIR filters, and digital I/O flexibility. Our state of the art processor provides 96 kHz sampling, 40 bit floating point Analog Devices Sharc DSP engine, high performance 24 bit converters, precise algorithms, IIR crossover filters, and Dante®, AES In / Out. The result is best in class audio performance and feature set.

The POPE Professional® XT-4040 can be configured stand alone or remote controlled via with the supplied POPE Professional® SoundNet® Networking software application GUI. This Graphic User Interface is not only gives a clear overview off all settings, but at the same time provides you with real time hands on control over all your system parameters. For both fixed and touring applications, the XT-4040 offers you reliable top high end quality sound.

The XT-4040 DSP is having on board FIR/IIR filters, SoundNet® Networking, AES and Dante®. The customer can add POPE Professional® DE-44 Dante® module at any time to enable Dante® networking. The DE-44 Dante® module is optional.

Specifications

Model	XT-4040
Class	4 In / 4 Out Digital Signal Processor
Front Panel Controls	
Display	2x16 Characters Backlit LCD
Level meters	5 Segment LEDs
Buttons	5 System Menu Controls, 4 Mute/Channel Controls, 1 Dial Encoder
Connectors	
Analog	3-pin XLR (four female for input & four male for output)
Digital I/O (Dante®/AES)	2 x RJ-45 Female
DE-44 Dante® Module	Male 2 x 25 pin dual header connector, Plastic quick connector
Power	Standard IEC Socket
Inputs and Outputs	
Input Impedance	>10k Ohms
Output Impedance	50 Ohms
Maximum Level	+20dBu
Type	Electronically balanced
Audio Performance	
Frequency Response	20 to 20kHz
Dynamic Range	115 dB typ (unweighted)
CMMR	>100dB (50 to 10kHz)
S/N Ratio	> 117dBA on analog In- / Output
	> 120dBA on Dante Input / AES
THD+N	< -100dB @ 1kHz
Digital Audio Performance	
Processor (DSP)	40-Bit Floating Point
Sampling Rate	96kHz
Analog Converters	Super Performance 24-bit
Propogation Delay	1.5ms (1.75-7.75 with FIR)
Audio Control Parameters	
Gain	-120 to +15dB in 0.1 dB steps
Polarity	+/-
Delay	Up to 500 ms per In/Out

Features

- Dante® /AES Digital In / Out
- Analog 4 in 4 out configuration
- FIR/IIR Filter per Input & Output
- Supplied with SoundNet® Networking software
- Ethernet Connectivity
- 24 bit AD/DA converters
- Sampling rate 96 kHz - 40 bit floating point DSP
- 500ms Delay per Input and Output
- X-Over, DynEQ, RMS / PEAK Limiters
- Phase correction and 24 Presets
- Password protection
- Up to 255 devices in one network
- 1U Rack design

Application

- Live Sound
- Touring Concerts
- Club Systems
- Places of Worship
- Large Nightclubs
- Cinema Theaters

In - Gain/IIR	
Variable Equalizer	5 per In
Mode	OFF, EQ, HP, LP, H-SH, L-SH, H-SHQ, L-SHQ, ALLP1, ALLP2
Gain	-15 to +15dB in 0.1dB steps
Frequency	20 to 20kHz
In - FIR	Bypass / Load FIR
Out - Gain/IIR	
Variable Equalizer	10 per Out
Mode	OFF, EQ, HP, LP, H-SH, L-SH, H-SHQ, L-SHQ, ALLP1, ALLP2
Gain	-15 to +15dB in 0.1dB steps
Frequency	20 to 20kHz
Quality	0.5-100
Out – DynEQ	
Filter:	
Frequency	20 to 20kHz
Variable Equalizer	2 per Out
Mode	OFF, EQ, HP, LP, H-SH, L-SH, H-SHQ, L-SHQ, ALLP1, ALLP2
Gain	-15 to +15dB in 0.1dB steps
Quality	0.5-100
Level Detection:	
Threshold	-60dB to 10dB
Attack	1 to 100 dB/s
Release	100 to 1000 dB/s
Slope	50 to 500
Parametric Filter:	
Type	OFF, EQ, H-SH, L-SH, H-SHQ, L-SHQ
Frequency	20 to 20kHz
Quality	0.5-100
Gain:	-120 to +15dB in 0.1 dB steps
Delay:	500 ms
Out - FIR	Bypass / Load FIR
X-Over	
Filter:	
Frequency	20 to 20kHz
Mode	BS_LP6, BS_HP6, BS_LP12, BS_HP12, BS_LP18, BS_HP18, BS_LP24, BS_HP24, BW_LP6, BW_HP6, BW_LP12, BW_HP12,
	BW_LP18, BW_HP18, BW_LP24, BW_HP24LR_LP24, LR_HP24, BS8_LP48, BS8_HP48, BW8_LP48, BW8_HP48, HM4_HP24
Limiter	
RMS:	
Threshold	-60dB to 10dB
Attack	100 to 2000 ms
Release	500 to 10000 ms
PEAK:	
Threshold	-60dB to 10dB
Attack	1 to 100 ms
Release	10 to 1000 ms
System Parameters	
No. Of Programs	24
Delay Units	Millisecond, Feet, Meter, FS
Gain/IIR, X-Over, Limiter	Copy / Paste / Default
Mode	User / Manufacturer
General	
Power	90-265 VAC (50/60Hz)
Dimensions (H x W x D)	44mm x 483mm x 229 mm
Weight	3.6 Kg

Description

The POPE Professional® XP-4040 is our most complete fixed architecture digital processor with a focus on audio performance. Our state of the art processor provides 96 kHz sampling, 32 bit floating point DSP engine, high performance 24 bit converters, precise algorithms and filters. The result is best in class audio performance and feature set.

The POPE Professional® XP-4040 can be configured stand alone or remote controlled via with the supplied POPE Professional® XP-4040 software application GUI via USB. This Graphic User Interface is not only gives a clear overview off all settings, but at the same time provides you with real time hands on control over all your system parameters. For both fixed and touring applications, the XP-4040 offers you reliable top high end quality sound.

Specifications

Model	XP-4040
Class	4 In / 4 Out Digital Signal Processor
Front Panel Controls	
Display	2x16 Characters Backlit LCD
Level meters	4 Segment LEDs
Buttons	3 System Menu Controls, 4 Mute/Channel Controls, 1 Dial
Encoder	
Connectors	
PC Connection	USB - B
Power	Standard IEC Socket
Inputs and Outputs	
Input Impedance	>10k Ohms
Output Impedance	50 Ohms
Maximum Level	+20dBu
Type	Electronically balanced
Audio Performance	
Frequency Response	+/- 0.1dB (20 to 20kHz)
Dynamic Range	114 dB typ (unweighted)
CMMR	>98dB (50 to 10kHz)
Crosstalk	< -101dB
Distortion	0.002% (1kHz @ +4dBu)
Digital Audio Performance	
Processor (DSP)	32-Bit Floating Point
Sampling Rate	96kHz
Analog Converters	Super Performance 24-bit
Input A,B,C,D	
Equalizer	10 Band, PEQ / LS6 / LS12 / HS6 / HS 12/ APF
Volume	-60dB to 5dB
Delay	0 to 4.99ms
Output 1,2,3,4	
Equalizer	10 Band, PEQ / LS6 / LS12 / HS6 / HS 12/ APF / APF-1
Delay	0 to 9.99ms
Limiter	-19dB to 0dB
Crossover	HPF / LPF
Input Link	A, B, C, D
Output Link	1, 2, 3, 4
System Parameters	
No. of Programs	20
Delay Units	Millisecond, Feet, Meter
Frequency Mode	36 steps/Oct, 2Hz Resolution
Security locks	Password
Channel names	13 Characters
General	
Power	90-265 VAC (50/60Hz) – 20VA
Dimensions (H x W x D)	44mm x 483mm x 229 mm
Weight	4.6 Kg

Features

- Analog 4 in 4 out configuration
- Supplied with XP-4040 software
- USB Connectivity
- 24 bit AD/DA converters
- Sampling rate 96 kHz - 32 bit floating point DSP
- Delay per Input and Output
- X-Over, EQ, PEAK Limiters
- Phase correction and 20 Presets
- Password protection
- 1U Rack design

Application

- Live Sound
- Touring Concerts
- Club Systems
- Places of Worship
- Large Nightclubs
- Cinema Theaters