

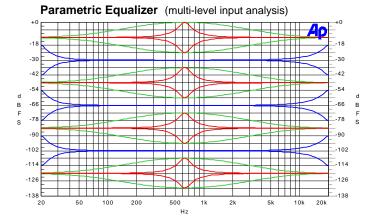
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ISP-100 SPECIFICATIONS General Specifications Analog Input/Output Modules Modular, 2-Channel, 24-bit Converters Digital Input/Output Modules Modular, 2-in x 2-out, AES/EBU (S/PDIF) Noise Floor -107 dBu, typical THD+N 0.003%, typical (0.002% @ 1 kHz) Less than 2 msec, analog to analog Inherent Delay Compressor/Limiter Components Threshold 0 dD to CO dD Attack Time Release Time **Knee Selection Detection Window Crest Factor Sensi Compression Ratio** Sidechain Channel **Delay Componer** Maximum Delay Ti Adjustment Increm Gate Component Threshold Attack Time **Release Time** Attenuation **Detection Window** Key Channel Sele Crossovers, 2-W Bandpass Gain pe **Filter Types** Slopes **Bessel/Butterw** Linkwitz-Riley Cutoff Frequency Filter Bank Comp Available Filter Typ Filter Bank Gain T Slopes (stacked filte

	0 dB to -60 dB
	20 usec to 50 msec
	20 usec to 5 sec
	Hard/Soft
	20 usec to 5 sec
itivity	average to peak
0	1.2 to 24.0
I Selection	Available; refer to QuickBUILD
nts	
ime	Topology dependent, typically 650 msec
nents	20 usec
ts	0 dB to -60 dB
	20 usec to 50 msec
	20 usec to 5 sec
	0 dB to -100 dB
	20 usec to 5 sec
ction	Available; refer to QuickBUILD
cuon	
ay, 3-Way, 4-Way	
er Band	0 dB to -96 dB
	Bessel, Butterworth, Linkwitz-Riley
orth	6 dB/oct, 12 dB/oct, 18 dB/oct, 24 dB/oct
orui	12 dB/oct, 24 dB/oct
(all bands)	20 Hz to 20 kHz
(un barrao)	
oonents	
pes	Low pass, high pass, low shelf,
	high shelf, notch, parametric EQ,
	peaked high pass, all pass
rim	12 dB to -12 dB
rs provide greater slopes)	
quencies	20 Hz to 20 kHz
	12 dB to -12 dB (notch: 0 dB to -50 dB)
	1/12 to 1 octave
rom peak; Notch BV	V = 3 dB down from unaffected signal)

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Center/Corner Fre

Bandwidth (BW)

(PEQ BW = 3 dB)

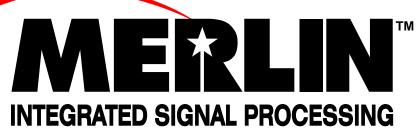
Boost/Cut

Part number 42-02-053106





POWERFUL



ISP-100 Integrated Signal Processor

A hardware/software system putting you in control with

Performance

CONFIGURABLE Flexibility

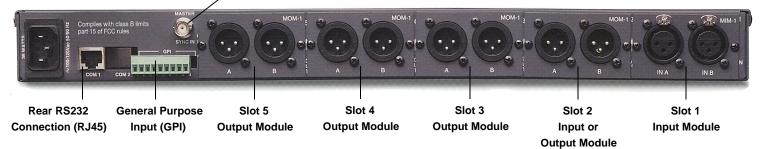
> INTUITIVE Simplicity

CONFIGURABLE

Flexibility

ISP-100 hardware and software combine to provide three primary means of system configurability, leaving you in control of inputs/outputs. system design, and system control.

External Clock Sync Input



In addition to the built in flexibility of the ISP-100 is the compatibility with major third party serial network suctas AMX, allowing you to take advantage of the many options available through these networks, such as remote controls, touch screens, zoning, etc.

Modularity

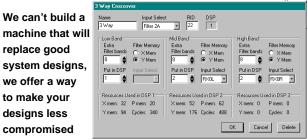
The ISP-100 hardware design incorporates the use of modular inputs and outputs. It has five I/O bays for custom configurations to meet the needs of your project.



Analog and/or Digital modules in the same chassis

Input and output modules are stereo pairs, allowing any ISP-100 chassis to be set up as a 2-in x 2-out up to a 2-in x 8-out, or as a 4-in x 2-out up to a 4-in x 6-out. These inputs and outputs may be analog and/or digital in any combination conforming to the overall chassis bay configuration.

We offer an AES/EBU (S/PDIF) digital I/O module which incorporates two input and two output channels. This module can be used in any of the five chassis bays with function being determined by the bay in which it is installed. It can also be used in "pass through" mode providing sample rate conversion and synchronization for multiple units.



Using QuickBUILD you control the signal and the processor

QuickBUILD

This software tool is used to create system signal path topologies (QuickMAPs) for use in the VUE-IT software.

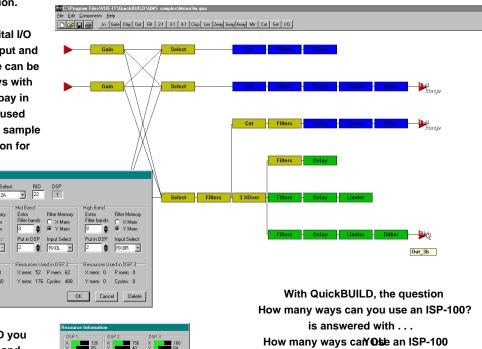
QuickBUILD allows system designers to take advantage of the DSP power within the ISP-100 and "tweak" their system to maximum performance levels.

You can start with some of our basic sample topologies and revise to meet your needs, or start from scratch with your idea of the perfect sound system. QuickBUILD allows you to define it, design it, document it, test it. and the bottom line . . . Controld

VUE-IT

This Virtual User Environment for ISP-100s was developed to provided system designers and installers the ability to take advantage of all of the positive aspects of using digital processing without having to accept the negative effects of long learning curves and unfamiliar component operation.

Designed with the "look and feel" of typical pro audio gear, the VUE-IT provides intuitive graphics with faders, knobs and buttons which respond as expected when clicked on with a mouse. We even added ballistics to our meters to make you feel comfortable viewing online.



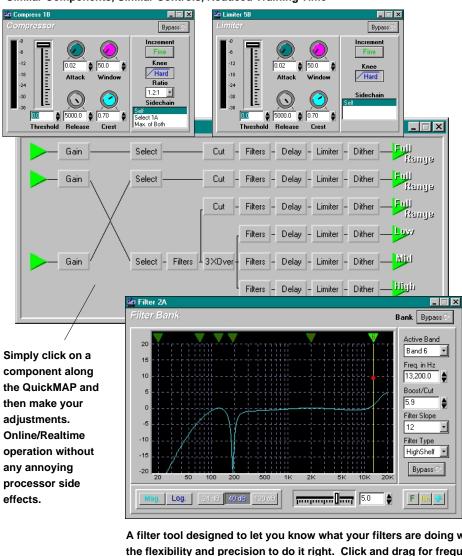
INTUITIVE Simplicity

What could be easier, select a system design, click on the components requiring adjustment, slide a fader, turn a knob, push a button; or take full advantage of the digital world and enter precise values for each setting.

System designers can guickly create specific QuickMAPs for each project, ensuring less time in the field, as well as less opportunity for errors.

An entire system can be programmed in the office leaving more time to tweak on site. System installers can spend their time and attention on the more crucial aspects of the job, the sound.

Similar Components, Similar Controls, Reduced Training Time



A filter tool designed to let you know what your filters are doing with of a concern, since as technology the flexibility and precision to do it right. Click and drag for frequency lows we will continue to offer you amplitude and bandwidth or key in settings with 1/10 Hz and 1/10 dB the ability to upgrade without having precision. View amplitude or phase; use bandwidth or "Q"; choose to start from scratch. which filter is where. Your choice, your control.

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Selections can be made from a set of factory supplied QuickMAPs or use the QuickBUILD software to design your own custom QuickMAP to fit your specific project needs. These system templates help maximize your design time by allowing you to focus on the critical issues, like meeting your clients schedule without giving up all your weekends.

Integration of operations and functions simplify the total audio system design. Eliminating components, cables and connectors minimizes potential noise and failures, while increasing overall system performance and integrity.

POWERFUL Performance

A spec is only as good as it sounds. The transparency of the ISP-100 can not be adequately explained by specifications and statistics, however, we believe the way we sound on paper is met and exceeded by our live performance.

Currently online and providing solutions, both domestically and abroad, the ISP-100 is found in venues ranging from Houses of Worship, amusement parks, multi-purpose rooms and arenas, stadiums, rental systems, touring, etc.

Anywhere audio installations require professional level signal processing, the ISP-100 is providing cost-effective, high fidelity solutions to consultants and contractors demanding quality results.

Precision, security and repeatability typify just some of the advantages to the digital signal processing system incorporated within an ISP-100.

Review the ISP-100 numbers and performance graphs generated by the Audio Precision System II equipment used to objectively evaluate our performance levels. Consider the trueness of algorithm response graphed even at input leve Is of -120 dB (i.e., PEQ graph).

The ISP-100 utilizes 24-bit data paths which eliminates truncating algorithms. This means the only major delimiting factors on fidelity are the input/output converters. Currently offering 24-bit A/D and D/A converters, along with AES/EBU digital input/output with precise sample rate conversion from 32 to 54 kHz to a stable 48 kHz, the ISP-100 takes full advantage of its DSP processing performance.

In addition, due to the wisdom and forethought of modular input/output design a nd downloaded operating systems, obsolescence is made less