

# Ashly ne24.24M 16x4 Logic 16x4 Protea DSP Audio Matrix Switch/Processor with GPO Logic Card

Input	Active Balanced, 18k Ohms
Input Gain Range	-50dB - +12dB, Selectable Polarity
Output	Active Servo Balanced, 112 Ohms
Input/Output Level	+20dBu (Max)
Output Gain Range	-50dB - +12dB, Selectable Polarity
Frequency Response	20 Hz—20kHz, ±0.25 dB
THD	<0.01% @ 1kHz, +20 dBu
Dynamic Range	>110dB (20Hz-20kHz) Unweighted
Output Noise	<-90 dBu Unweighted
Environmental	40-120 deg. F, (4-49 deg. C) noncondensing
<b>Rear Panel</b>	
Controls	Remote level control, Data In/Out ports, Preset Recall, Logic Inputs, On/Off switch
Connections	10/100 Ethernet port, RS-232, Euroblock In/Out
Power Cord	3-Prong, Detachable
<b>Weight, Dimensions &amp; Power</b>	
Dimensions	19"L x 3S"H x 8.5"D (483mm x 89mm x 216mm)
Unit Weight	8.9lbs (4.04kg)
Shipping Weight	12lbs(6kg)
Power Requirements	90 - 240VAC, 50/60Hz, 40W

<b>Compressor</b>	
Threshold	-20dBu to +20dBu
Ratio	1.2:1-∞
Attack	0.2 to 50ms
Release	5ms/dB to 1000ms/dB
Detector	Peak/Average
Attenuation Bus	1 available
Metering	In, Out, Attenuation, Graphical
<b>Autoleveler Controls</b>	
Target Level	-40dBu to +20dBu
Action	Gentle, normal, aggressive, user defined
Maximum Gain	0dB to +27dB
Metering	Attenuation
Ratio	1.2:1 to 10:1
Threshold Below Target	-30dB to 0dB
Gain Increase/Decrease Rate	5ms/dB to 1000ms/dB
Hold Time	0-6 sec
<b>Ducking: High/Low Priority, Trigger, Filibuster, Ducked Program</b>	
Trigger Threshold	-80dBu to +20 dBu
Ducking Release	5ms/dB to 1000ms/dB
Ducking Depth	0dB to -30dB, -°°
Enable Ducking at Matrix Mixer	Yes
Metering	Input
<b>Gate</b>	
Threshold	-80dBu to +20dBu
Range	off, 100dB to 0dB
Attack	0.2ms/dB to 50 ms/dB
Release	5ms/dB to 1000ms/dB
Metering	Gate LED, Graphical

<b>Gain</b>	
Gain	-50dB to +12dB, off, polarity invert
Remote Level Control	8 available, 0dB to ∞
Remote RD8C Gain	Enable per channel, 0dB to ∞
WR-5 (neWR-5) Remote Gain	0 to -50dB, Mute
<b>EQ: Parametric 15 Band</b>	
Frequency	20*20kHz
Level	-30dB to +15dB
Q Value	0.016 to 3.995 Octave
<b>EQ: Hi/Low Shelf 6/12 dB/oct</b>	
Frequency	20Hz—20kHz
Level	-15dB to +15dB
<b>EQ: All Pass</b>	

Frequency	20Hz—20kHz
<b>EQ: Variable QHP/LP</b>	
Frequency	20Hz—20kHz
Q Value	3.047 to 0.267
<b>EQ: Notch/Bandpass</b>	
Frequency	20Hz—20kHz
Q Value	92.436 to 0.267
<b>Crossover: 2 Way, 3 Way, 4 Way Crossover &amp; High Pass/Low Pass Filters</b>	
Bessel & Butterworth Filters	12/18/24/48dB/oct
Unkwitz-Riley Filter	12/24/48 dB/oct
Frequency	Off, 20Hz-20KHz
<b>Delay: § 48kHz Sampling Rate (Input Time, Distance &amp; Temperature)</b>	
Speaker Delay	0-21ms
Delay	0-682ms

<b>Delay: @ 96kHz Sampling Rate (Input Time, Distance &amp; Temperature)</b>	
Speaker Delay	0-10.6ms
Delay	0-341ms
<b>Audio Metering Tool</b>	
Range	-60dBu to +20dBu
Increments	1dB
Peak Hold Indicator	Yes
<b>Signal Generator Tool: Pink noise, White noise, Sine wave</b>	
Signal Level	Off, -50dBu to +20dBu
Sine Wave Frequency	20Hz—12kHz
<b>Matrix Mixer</b>	
Gain (0.5dB increments)	Off, -50 to +12dB
Mute	Per channel
Enable Ducking at Mixer	Yes
Ducking LED	Per channel if enabled
<b>Processors</b>	
Input A/D, Output D/A	24-bit
DSP Processors	24-bit signal, 48-bit filters, 56-bit accumulator
Sample Rate	48kHz
Propagation Delay @ 48kHz:	1.46ms