

STEWARTTM AUDIO

YOUR ULTIMATE SOUND EXPERIENCE

PRODUCT CATALOG

DANTE NETWORKED AMPLIFIERS

PRODUCT	FORM FACTOR	CHANNELS	WATTS CHANNEL	IMPEDANCE	INPUTS	ZONE SIZE	FEATURES	PAGE NUMBER
CVA40-1 PoE++ CV	Flange Mt	1	40W	70V / 100V	1 Net	S	Compact, Plenum rated	3
DPA-220	Dongle	2	20W	4 Ω	1 Net	SM	Web server, Auto-Load Sensing, OTA	3
DPA-220+	Dongle	2	20W	4 Ω	1 Net	SM	Feature rich, API, DSP, control, reporting	3
DSP100-2 CV	1/2 rack	2	100W	70V / 100V	2 Local/Net	ML	DSP- Filtering, signal routing, Vol. control	4, 6
DSP100-2 LZ	1/2 rack	2	100W / 50 W	4 Ω / 8 Ω	2 Local/Net	ML	DSP- Filtering, signal routing, Vol. control	4, 6
FLX-E 80-4 CV	1/2 rack	4	80W	70V / 100V	4 Local/Net	ML	DSP- Filtering, signal routing, Vol. control	3, 5
FLX-E 80-4 LZ	1/2 rack	4	80W / 40W	4 Ω / 8 Ω	4 Local/Net	ML	DSP- Filtering, signal routing, Vol. control	3, 5
FLX-E 160-2 CV	1/2 rack	2	160W	70V / 100V	4 Local/Net	ML	DSP- Filtering, signal routing, Vol. control	3, 5
FLX-E 160-2 LZ	1/2 rack	2	160W / 80W	4 Ω / 8 Ω	4 Local/Net	ML	DSP- Filtering, signal routing, Vol. control	3, 5
FLX-E 320-1 CV	1/2 rack	1	320W	70V / 100V	4 Local/Net	ML	DSP- Filtering, signal routing, Vol. control	3, 5
MC850-LZ-D	1RU	8	50W	4 Ω / 8 Ω	8 Net	SML	CH to CH power sharing, Ethernet Ctrl	4
MC850-CV-D	1RU	8	50W	70V / 100V	8 Net	SML	CH to CH power sharing, Ethernet Ctrl	4
MC850-MXZ-D	1RU	8	50W	Mixed	8 Net	SML	CH to CH power sharing, Ethernet Ctrl	4

COMPACT AMPLIFIERS

PRODUCT	FORM FACTOR	CHANNELS	WATTS CHANNEL	IMPEDANCE	INPUTS	ZONE SIZE	FEATURES	PAGE NUMBER
AV25-2	1/4 rack	2	35/25W	4 Ω / 8 Ω	2	SM	Compact package	2
AV30MX-2	1/4 rack	2	30W	4 Ω / 8 Ω	2	SM	2-channel stereo mixer	2
CVA25-1	1/4 rack	1	25W	70V / 100V	1	SM	Remote Volume Control	2
CVA25-1 25V	1/4 rack	1	50W	25V	1	SM	Remote Volume Control	2
CVA50-1	1/4 rack	1	50W	70V / 100V	1	ML	Remote Volume Control	2

HALF RACK AMPLIFIERS

PRODUCT	FORM FACTOR	CHANNELS	WATTS CHANNEL	IMPEDANCE	INPUTS	ZONE SIZE	FEATURES	PAGE NUMBER
DSP100-1 CV	1/2 rack	1	100W	70V / 100V	2	ML	DSP- Filtering, Vol. control	4, 6
DSP100-2 CV	1/2 rack	2	100W	70V / 100V	2	ML	DSP- Filtering, signal routing, Vol. control	4, 6
DSP100-2 LZ	1/2 rack	2	100W/50W	4 Ω / 8 Ω	2		DSP - Filtering, signal routing, Vol. control	4, 6
FLX-E 80-4 CV	1/2 rack	4	80W	70V / 100V	4	SM	Integrated DSP, Networkable, RS232	3, 5
FLX-E 80-4 LZ	1/2 rack	4	80W / 40W	4 Ω / 8 Ω	4	SM	Integrated DSP, Networkable, RS232	3, 5
FLX-E 160-2 CV	1/2 rack	2	160W	70V / 100V	2	SM	Integrated DSP, Networkable, RS232	3, 5
FLX-E 160-2 LZ	1/2 rack	2	160W / 80W	4 Ω / 8 Ω	4		DSP - Filtering, signal routing, Vol. control	3, 5
FLX-E 320-1 CV	1/2 rack	1	320W	70V / 100V	1	SM	Integrated DSP, Networkable, RS232	3, 5
PA-50B	1/2 rack	2	50W	4 Ω / 8 Ω	2	SM	Bridgable	Website

SPECIALTY AUDIO PRODUCTS

PRODUCT	DESCRIPTION
DSP4x4	Robust, compact Digital Matrix Processor with 9 filter block, 5 gain blocks, a ducker, compressor/limiter, delays, 10 presets, 4 line/Mic inputs, 4 analog outputs, RS232 Control and compatible with Wall Plate family
HF-210	HiFlex Audio Bridge with multiple inputs, (4) Mic, (1) USB, (2) PC Audio via USB Outputs : USB-C, Line, Headphone. Dante Option available DSP: Yes

SUB COMPACT STANDARD AMPLIFIERS



SUB COMPACT AMPLIFIER APPLICATIONS GUIDE

PRODUCTS	ZONE SIZE	CLASS ROOMS	BOARD ROOMS	RETAIL	RESTAURANTS	HOSPITALITY ROOMS	TRAINING ROOMS	LOBBY / HALLWAY	HOW CRY ROOM
AV25-2	SM	✓	✓		✓	✓	✓	✓	✓
AV30MX-2	SM	✓	✓	✓			✓		
CVA25-1	SM	✓	✓	✓	✓		✓	✓	✓
CVA50-1	SM	✓	✓	✓	✓	✓	✓	✓	✓

SUB COMPACT AMPLIFIER SPECIFICATIONS GUIDE

PRODUCTS	PWR PERCH	IMPEDANCE	INPUTS	OUTPUTS	RACK SIZE	RVC	FEATURES
AV25-2	35/25W	4/8 Ω	2	2	1/4	No	Cost effective problem solver
AV30MX-2	30W	4/8 Ω	2	2	1/4	No	2 input mixer amplifier
CVA25-1	25W	70V / 100V	1	1	1/4	Yes	Constant voltage in 70V/100V
CVA25-1 25V	25W	25V	1	1	1/4	Yes	Constant voltage in 70V/100V
CVA50-1	50W	70V / 100V	1	1	1/4	Yes	Constant voltage in 70V/100V

Platform Standard features; Outstanding sound quality, Energy Star compliance, External power supply, Plenum rated, Multiple mounting options, Light weight, Convection cooled

PowerCore™ DPA-220 SERIES

SENSATIONAL SOUND EVERYWHERE

The PowerCore DPA-220 Series amplifier with Dante Embedded Product (DEP) technology sets a new standard for performance, size, durability and features – from one of the industry's most trusted brands. PowerCore amplifiers are PoE++ (802.3bt, Type 3) rated devices that require no external power supply allowing you to put audio anywhere there is an available Ethernet drop.

- PoE++ (802.3bt, Type 3) Powered Device
- Dante™ or AES67 Compatibility
- 24-bit Audio at 48kHz or 96kHz Sample Rate
- 2x20W / 1x40W Output Power (4Ω, ≤0.1% THD+N) Noise Floor



FEATURES & PERFORMANCE	DPA-220	DPA-220+	FEATURES & PERFORMANCE	DPA-220	DPA-220+
2X20W, 1X40W (20-20kHz, 4/8Ω, <0.1% Distortion)	✓	✓	Multi-color LED Patterns for Status Reporting	✓	✓
PoE Support with External DC Supply Support	✓	✓	Plenum Rated, with Hanger Wire Strap	✓	✓
Integrated Web Server for Set-Up & Configuration	✓	✓	Symetrix Intelligent Module Support		✓
Auto-Load Sensing & Gain Scaling at Start-up	✓	✓	Application Programming Interface (API) Support		✓
Over-the-Air (OTA) Firmware Updates	✓	✓	Real-time Monitoring & Reporting of System Status, Output Voltage, Output Current, Load Impedance, Temperature		✓
Advanced PoE Power Negotiation at Start-up	✓	✓	Digital Signal Processing (DSP) of Audio Signals		✓
Rich Suite of Protection Features	✓	✓	Integrated Beep, Tone, Noise Masking Signal Generators		✓
Beacon/Identifying Strobe for Easy Identification	✓	✓			

PART NUMBER: DPA-220

FLX-E FAMILY

FIVE FLX-E MODELS

The FLX-E series of amplifiers is the first half-rack commercial amplifier on the market offering 320W of power and to incorporate onboard DSP. This unique combination of power and features allows the amplifier to be tailored to fit the application. See page 5 for more details.

- Dante™ interface available
- Onboard DSP for signal routing & filtering
- USB for programming and RS232 available for configuration
- Available in both low impedance and constant voltage



PART NUMBERS: FLX-E 80-4 LZ, FLX-E 80-4 CV, FLX-E 160-2 LZ, FLX-E 160-2 CV, FLX-E 320-1 CV

NETWORKED PRODUCTS

DANTE PoE++ AMPLIFIER

The new Dante PoE++ amplifier family simplifies networked installations with a one cable, power and data solution. A 70V/100V model that makes any installation a snap.

- 40W 70V/100V Models
- Plenum Rated
- Compact Flange mount package
- Plug & play installation



PART NUMBER: CVA40-1-CV

STEWART
AUDIO

DSP100-1/DSP100-2

100W X 1 / 100W X 2 @ 70V/100V / 100W X 2 @ 4Ω

The DSP100 family is designed to tailor the signal to match and optimize the speaker in the zone. With built in DSP and 100W per channel this 70V/100V amplifier family is the perfect choice for applications that can benefit from signal conditioning while on a budget.

- Dante™ option available
- 1 or 2 channels at 100W 70V / 100V / 4Ω
- Built in DSP (See page 6 for flow chart)
- Programmable via USB port



PART NUMBERS: DSP100-1 CV, DSP100-2 CV, DSP100-2 LZ

HF-210

SP CONTROLS- HIFLEX AUDIO BRIDGE

The HF-210 is a four (4) microphone mixer front-end to USB solution for today's computer based video conferencing systems and hybrid classrooms, such as Zoom™, Teams™, Skype™, GoToMeeting®, Meet™, Ring Central Video®, and Webex®.

- Inputs: (4) Balanced Mic Inputs, (1) USB-A Microphone, (1) PC Audio via USB-C, (1) Dante™ (optional)
- Outputs : USB-C, Line-Level, Headphone
- DSP and Auto-mixing
- Control: SAPB API, Headphone Volume Knob
- Gen2 Sub-Compact Package
- External Power



PART NUMBER: HF-210

MC850 SERIES

THREE MC850 MODELS

The MC850 series is family of multi-channel Dante amplifiers expanding the reach of the audio network. With 8 channels and 50W of output per channel, this compact, 1RU commercial amplifier offers incredible value and flexibility. The MC850 includes three models to cover those applications where low impedance is required, constant voltage or mixed impedances.



- Dante™ Brooklyn interface (AES 67 option)
- Flexible power sharing between channels
- 2 Dante Jacks configurable for redundant or switched
- Ethernet reporting and control
- RS-232 volume control

MODEL	OUTPUT	WATTS	#CH
MC850-LZ-D	4Ω / 8Ω	50W	8
MC850-CV-D	70V / 100V	50W	8
MC850-MXZ-D	4Ω/8Ω - 70V/100V	50W / 50W	2 / 6

PART NUMBERS: MC850-CV, MC850-LZ, MC850-MXZ

FLX-E FAMILY OVERVIEW



FLX-E FEATURES

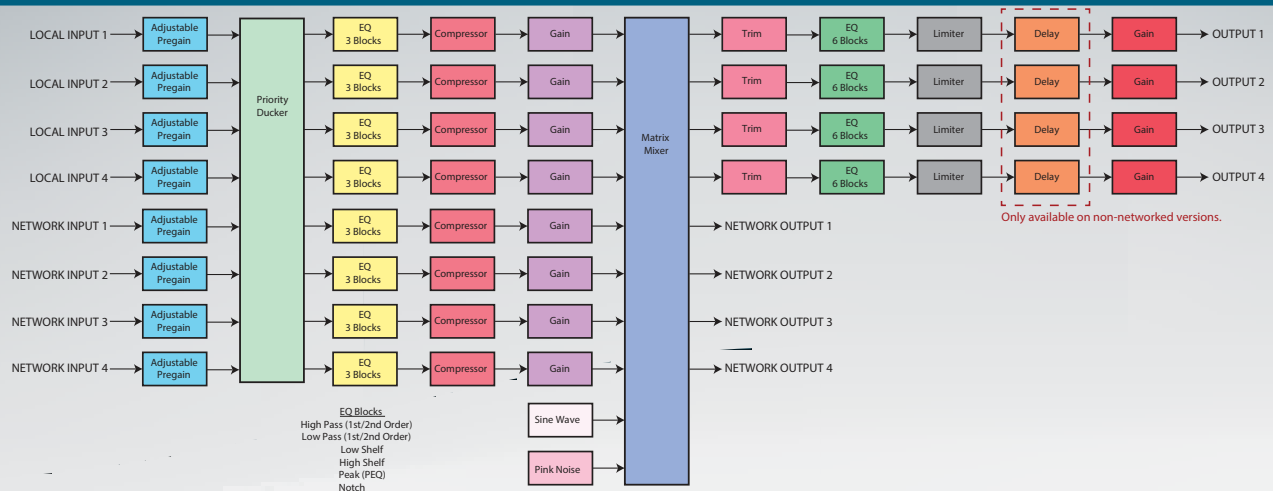
The FLX-E series of amplifiers is the first half-rack commercial amplifier on the market offering 320W of power and to incorporate onboard DSP. This unique combination of power and features allows the amplifier to be tailored to fit the zone, application and speakers saving time and budget in the process.

- Dante™ interface available (4 X 4 I/O)
- Onboard DSP for signal routing, filtering, and bridging
- Ethernet control & configuration
- Available in both low impedance and constant voltage

MODEL	OUTPUT	WATTS	#CH
FLX-E 80-4 CV	70V / 100V	80W	4
FLX-E 80-4 LZ	4 Ω / 8 Ω	80W / 40W	4
FLX-E 160-2 CV	70V / 100V	160W	2
FLX-E 160-2 LZ	4 Ω / 8 Ω	160W / 80W	2
FLX-E 320-1 CV	70V / 100V	320W	1

*FOUR ANALOG INPUTS ON ALL MODELS, ADDITIONAL FOUR DIGITAL WITH DANTE OPTION

FLX-E DSP FLOWCHART



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DSP100-1/DSP100-2

100W X 1 / 100W X 2 @ 70V/100V / 100W X 2 @ 4Ω

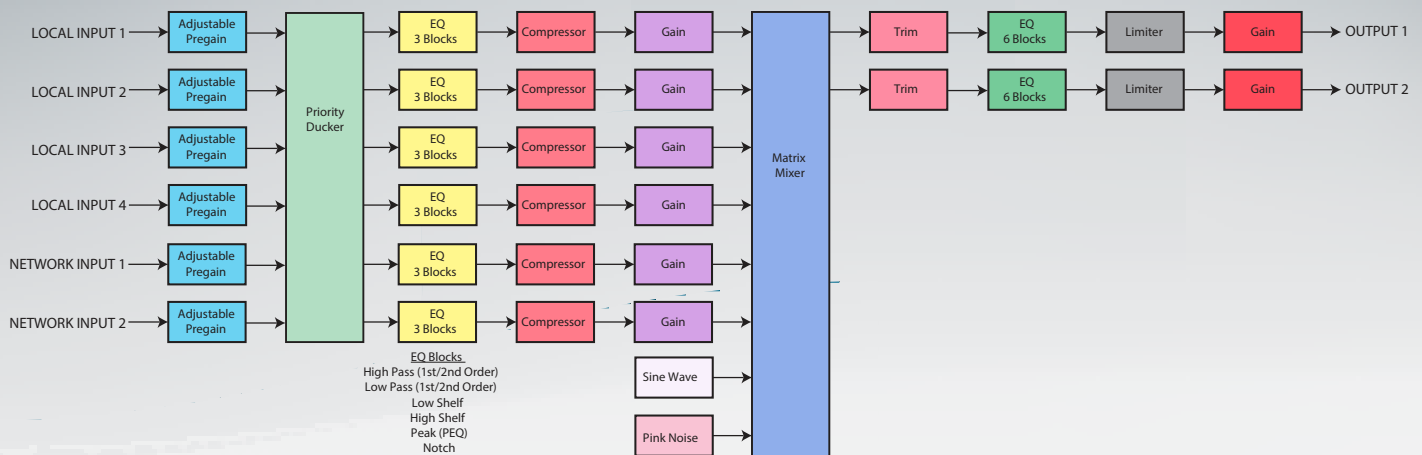
The DSP100 family is designed to tailor the signal to match and optimize the speaker in the zone. With built in DSP and 100W per channel this 70V/100V / 4Ω amplifier family is the perfect choice for applications that can benefit from signal conditioning while on a budget.

- Dante™ option available
- 1 or 2 channels at 100W 70V / 100V / 4Ω
- Built in DSP (see flow chart below)
- Programmable via USB port



PART NUMBERS: DSP100-1 CV, DSP100-2 CV, DSP100-2 LZ

DSP FLOWCHART

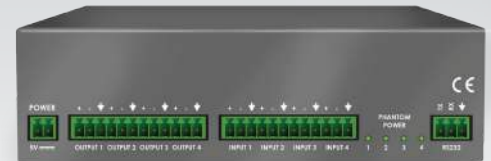


DIGITAL SIGNAL PROCESSORS

DSP 4 X 4

The DSP 4x4 is a versatile full featured DSP ideal for small to medium installations where 4 channels are the right amount. With a full array of DSP blocks designed to accept line or mic level.

- 4 Input Lines/Mic Inputs with 24V Phantom Power
- 4 Analog outputs
- 4 Gain Stages / 9 Filter Block / Matrix Mixer with crossover points
- Priority Ducker, 100ms of delay per channel
- Compressor & Limiter



PART NUMBER: DSP4X4



ABOUT US

Since 1982, Stewart Audio's singular focus has been making a difference in audio experiences. Our commitment to innovation and quality has provided our customers with a unique combination of performance and reliability. As the world transforms from analog to digital, Stewart recognizes the need for sub-compact and compact Networked Amplifiers to support a variety of new applications scenarios. Our ongoing goal is to continue leveraging our core technical competencies to solve problems faced by sound consultants, contractors and integrators.

RESOURCES

We believe in exceeding our customers' expectations. If you have any technical, service, sales or other questions please call us at (209) 588-8111, real people with real answers. For web resources please go to www.stewartaudio.com to find data sheets, manuals, applications drawings, local sales reps and a wealth of other information.

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