

# AudioControl®

Making Good Sound Great™



## MOBILE AUDIO | PRODUCT SUMMARY

JANUARY 2020

PRODUCTS DESIGNED AND ENGINEERED IN THE PACIFIC NORTHWEST

# DIGITAL SIGNAL PROCESSORS

These highly versatile digital signal processors contain the power of AudioControl processing through the flexible, accessible and feature-packed DM Smart DSP™ app. Configure channel summing, 30 bands of EQ, signal delay and phase correction, plus AudioControl proprietary features like AccuBASS®, GTO™ Signal Sense, and MILC™. Integrated input and output RTA's aid in channel summing and equalization.

Connect the optional AC-BT24 for Bluetooth® HD audio streaming and programming.



DM-810



DM-608

## DM SMART DSP APP

DM Smart DSP app is available for PC and Mac and features tablet and smart phone support via the AC-BT24 Bluetooth Streamer & Programmer.



MODEL	Speaker Level Inputs	Preamp Inputs	Digital Inputs	Preamp Outputs	Channel Summing	GTO™ Signal Sense	THD	Frequency Response	AccuBASS®	Maximum Output Level	Remote Level Control	Option Port
DM-810	8	8	1 x S/PDIF 1 x Optical	10	Y	Y	0.01%	20 Hz - 24 kHz	Y	10 Vrms	ACR-3 (optional)	Y
DM-608	6	6	1 x S/PDIF 1 x Optical	8	Y	Y	0.01%	20 Hz - 24 kHz	Y	10 Vrms	ACR-3 (optional)	Y

# OEM INTEGRATION

Every make, model, and year of vehicle is different, so installation of an upgraded sound system can be tricky. Most factory radios today are so much more than just a radio- they're generally the command center for the vehicle. Changing them can be very expensive, (if it's even possible) and you usually don't get much of an improvement in sound. With industry leading features such as our Load Matching Circuit, intuitive channel summing, patented AccuBASS® compensation, GTO™ Signal Sense, signal delay and EQ, AudioControl active line output converters are the go-to choice for OEM integration.



LC2i



LC2i / LC2i Pro



LC6i



LC7i



LC8i



DQ-61

MODEL	Speaker Level Inputs	Line Level Inputs	Channel Summing	Aux Input	Preamp Outputs	GTO™ Signal Sense	Frequency Response	Signal Delay	EQ	AccuBASS®	Maximum Output Level	Remote Level Control
DQ-61	6	NA	Y	N	6	Y	10 Hz - 22 kHz	Y	Y	Y	7.5 Vrms	ACR-3 (included)
LCQ-1	6	NA	Y	N	6	Y	10 Hz - 22 kHz	N	Y	Y	7.5 Vrms	ACR-2 (optional)
LC1i	2	2	N	N	2	Y	20 Hz - 50 kHz	N	N	Y	9.5 Vrms	NA
LC2i	2	NA	N	N	4	Y	33 Hz - 100 kHz	N	N	Y	9.5 Vrms	ACR-1 (optional)
LC2i Pro	2	NA	N	N	4	Y	20 Hz - 50 kHz	N	N	Y	9.5 Vrms	ACR-1 (included)
LC6i	6	NA	Y	N	6	Y	10 Hz - 22 kHz	N	N	N	9.5 Vrms	ACR-1 (optional)
LC7i	6	NA	Y	N	6	Y	10 Hz - 22 kHz	N	N	Y	8.5 Vrms	ACR-1 (optional)
LC8i	8	2 (AUX)	Y	Y	8	Y	10 Hz - 22 kHz	N	N	N	8.5 Vrms	ACR-3 (included)

# POWER AMPLIFIERS



D-6.1200



D-5.1300



D-4.800

AudioControl has paired our award winning amplifier technology with powerful Matrix Digital Signal Processing into the D-4.800™, D-6.1200™, and D-5.1300. AudioControl's DM Smart DSP app allows complete control over 30 bands of EQ, signal delay, phase correction and well known features like patented AccuBASS®, GTO™ Signal Sense and MILC™, plus an integrated input and output RTA.

MATRIX DSP AMPLIFIERS	Channels	Speaker Level Inputs	Continuous Power (RMS) at 14.4V		S/N Ratio (ref: rated power)	THD+N	Linkwitz-Riley Crossover		Bass Processing	Pass Thru	Option Port	Remote Level Control
			Speaker Outputs	Sub Output			Mode(s)	Freq. Range				
D-6.1200	6	8	125W @ 4Ω 200W @ 2Ω 400W Bridged (4Ω)	NA	102 dBa	<0.01%	Low Pass Band Pass High Pass	20 Hz - 20 kHz	AccuBASS	Y	Y	ACR-3 (optional)
D-5.1300	5	8	125W @ 4Ω 200W @ 2Ω 400W Bridged (4Ω)	350W @ 4Ω 500W @ 2Ω	102 dBa	<0.01%	Low Pass Band Pass High Pass	20 Hz - 20 kHz	AccuBASS	Y	Y	ACR-3 (optional)
D-4.800	4	6	125W @ 4Ω 200W @ 2Ω 400W Bridged (4Ω)	NA	102 dBa	<0.01%	Low Pass Band Pass High Pass	20 Hz - 20 kHz	AccuBASS	Y	Y	ACR-3 (optional)



LC-6.1200



LC-5.1300



LC-4.800

Featuring OEM integration friendly features such as channel summing and our patented AccuBASS®, AudioControl LC series multi-channel amplifiers have changed the game in OEM integration, offering flexible crossovers, user friendly signal routing and control. Spend less time on the install and more time listening to music as it was meant to be heard.

MULTI-CHANNEL AMPLIFIERS	Channels	Speaker Level Inputs	Continuous Power (RMS) at 14.4V		S/N Ratio (ref: rated power)	THD+N	Linkwitz-Riley Crossover		Bass Processing	Pass Thru	Remote Level Control
			Speaker Outputs	Sub Output			Mode(s)	Freq. Range			
LC-6.1200	6	8	125W @ 4Ω 200W @ 2Ω 400W Bridged (4Ω)	NA	102 dBa	<0.01%	Low Pass Band Pass High Pass	30 Hz - 5 kHz	AccuBASS	Y	ACR-1 (optional)
LC-5.1300	5	8	125W @ 4Ω 200W @ 2Ω 400W Bridged (4Ω)	350W @ 4Ω 500W @ 2Ω	102 dBa	<0.01%	Low Pass Band Pass High Pass	30 Hz - 5 kHz	AccuBASS	N	ACR-1 (optional)
LC-4.800	4	6	125W @ 4Ω 200W @ 2Ω 400W Bridged (4Ω)	NA	102 dBa	<0.01%	Low Pass High Pass	30 Hz - 300 Hz	AccuBASS	Y	ACR-1 (optional)



LC-1.1500



LC-1.800

No matter the install, you can be assured power will meet and exceed expectations with the LC-1.1500™ and LC-1.800™.

Enjoy loud, clean and articulate bass, combined with AudioControl's patented AccuBASS® circuit - the only way to properly overcome factory bass roll-off and heavily equalized factory bass settings.

SUBWOOFER AMPLIFIERS	Channels	Speaker Level Inputs	Continuous Power (RMS) at 14.4V	S/N Ratio (ref: rated power)	THD+N	Linkwitz-Riley Crossover		Subsonic Filter	Bass Processing	Remote Level Control
						Mode(s)	Freq. Range			
LC-1.1500	1	2	850W @ 4Ω 1500W @ 2Ω	102 dBa	<0.1%	Low Pass	30 Hz - 230 Hz	24 Hz	AccuBASS®	ACR-1 (optional)
LC-1.800	1	2	500W @ 4Ω 800W @ 2Ω	102 dBa	<0.1%	Low Pass	30 Hz - 230 Hz	24 Hz	AccuBASS®	ACR-1 (optional)

# ACX ALL-WEATHER AMPLIFIERS



ACX-300.1



ACX-300.4

AudioControl ACX All-Weather Amplifiers are built tough from solid aluminum extrusions, sealed tight against the elements, and ready for your next adventure. Fully sealed quick connect wiring, and a water-tight chassis add up to an IPX6 rating, ensuring ACX amplifiers deliver the pure, uninterrupted power AudioControl is known for.

MODEL	Channels	Inputs	Continuous Power All Channels Driven (RMS) at 14.4V	S/N Ratio (ref: rated power)	THD+N	Frequency Response	Linkwitz-Riley X-over		AccuBASS	Remote Level Control
							Mode(s)	Settings		
ACX-300.4	2/4	4	50W @ 4Ω 75W @ 2Ω 150W @ 4Ω Bridged	102 dBa	<0.01%	26 Hz - 22 kHz	High Pass	80 Hz 120 Hz Bypass	N	NA
ACX-300.1	1	2	175W @ 4Ω 300W @ 2Ω	106 dBa	<0.01%	26 Hz - 22 kHz	Low Pass	80 Hz 120 Hz Bypass	Y	ACR-1 (optional)

# ACM MICRO AMPLIFIERS

ACM series amplifiers by AudioControl are the perfect blend of power and features for car audio systems from mild to wild. Compact size, high power and the ability to help integrate with factory stereo systems are features that assure "Making Good Sound Great" can happen in any installation. Reversible cover plates allow flexible mounting options when paired with AudioControl DM Series Processors or when using multiple ACM series amplifiers in confined spaces.



ACM-1.300



ACM-2.300



ACM-4.300

MODEL	Channels	Speaker Level Inputs	Continuous Power All Channels Driven (RMS) at 14.4V	S/N Ratio (ref: rated power)	THD+N	Frequency Response	Linkwitz-Riley X-over		Subsonic Filter	AccuBASS	Remote Level Control
							Mode(s)	Settings			
ACM-4.300	4	4	50W @ 4Ω 75W @ 2Ω	102 dBa	<0.01%	20 Hz - 20 kHz	High Pass	80 Hz 120 Hz Bypass	32 Hz	N	NA
ACM-2.300	2	2	75W @ 4Ω 150W @ 2Ω	102 dBa	<0.01%	20 Hz - 20 kHz	High Pass	80 Hz 120 Hz Bypass	32 Hz	N	NA
ACM-1.300	1	1	175W @ 4Ω 300W @ 2Ω	102 dBa	<0.01%	20 Hz - 20 kHz	Low Pass	80 Hz 120 Hz Bypass	24 Hz	Y	ACR-1 (optional)

# BASS RESTORATION PROCESSORS



THE EPICENTER



THE EPICENTER INDASH

For more than twenty-five years, AudioControl's The Epicenter® has been the most sought after bass restoration processor on the planet. The Epicenter contains a bass maximization circuit that accurately recreates and injects low frequency information back into the signal path. This means The Epicenter will give more low frequency bass impact to your favorite music.

MODEL	Speaker Level Inputs	Preamp Inputs	Aux Input	Preamp Outputs	S/N Ratio	THD	Subsonic Filter (programmable)	Maximum Output Level	Remote Level Control
THE EPICENTER	NA	2	N	2	110 dB	0.003%	33 Hz	13.5 Vrms	ACR-1 (included)
THE EPICENTER PLUS	2	2	Y	2	110 dB	0.003%	33 Hz	9.5 Vrms	ACR-2 (included)
THE EPICENTER INDASH	2	2	N	2	110 dB	0.003%	NA	13.5 Vrms	NA

## PREAMP LINE DRIVERS



Give your system the boost that it needs. The high headroom power supply of our line drivers raises any preamp signal up to 24 dB. This provides better dynamic range and a quiet, noise-free signal. Perfect for driving those long cable runs from the front to the back of the vehicle and achieving maximum sound quality and SPL.

Adjust volume output from the comfort of the driver's seat with the optional ACR-1 remote.

MODEL	Preamp Inputs	Preamp Outputs	S/N Ratio	THD	Frequency Response	Subsonic Filter (programmable)	Maximum Output Gain	Maximum Output Level	Remote Level Control
<b>MATRIX PLUS</b>	6	6	> 110 dB	0.005%	10 Hz - 100 kHz	33 Hz	24 dB	9.5 Vrms 13 V Peak	ACR-1 (optional)
<b>OVERDRIVE PLUS</b>	2	2	> 110 dB	0.005%	10 Hz- 100 kHz	NA	24 dB	9.5 Vrms 13 V Peak	ACR-1 (optional)

## PROCESSORS & EQUALIZERS



Maximize overall system performance! AudioControl equalizers offer precise control to compensate for factors that interfere with sound quality. Adjust your system's response for your car's acoustics and your personal musical preferences. Dial in your front stage even more with built-in signal delay in the DQDX™.

MODEL	Speaker Level Inputs	Preamp Inputs	Preamp Outputs	S/N Ratio	THD	Frequency Response	Linkwitz-Riley Crossover (programmable)	Subsonic Filter (programmable)	Signal Delay	Maximum Output Level	Remote Level Control
<b>DQDX</b>	NA	6	6	NA	0.01%	20 Hz- 22 kHz	Y	33 Hz	Y	7.5 Vrms	ACR-3 (included)
<b>EQS</b>	4	6	6	110 dB	0.003%	10 Hz - 100 kHz	N	33 Hz	N	9.5 Vrms	NA
<b>EQX</b>	2	2	8	110 dB	0.003%	10 Hz - 20 kHz	Y	33 Hz	N	7.5 Vrms	NA
<b>EQL</b>	2	2	2	110 dB	0.003%	10 Hz - 100 kHz	N	33 Hz	N	7.5 Vrms	NA

## IN-DASH AUDIO EQUALIZERS



AudioControl's in-dash equalizers are true audiophile quality products in a half-din chassis. Using an after-market head unit, tablet or any other source with analog outputs, compensate for the acoustics of the vehicle, and recapture the excitement and vibrancy of concerts. Auxiliary inputs allow connection of a second source.

MODEL	Preamp Inputs	Aux Input	Preamp Outputs	S/N Ratio	THD	Frequency Response	Linkwitz-Riley Crossover		Maximum Output Level
							Outputs	Slope(s)	
<b>THREE.2</b>	2	Y	6	110 dB	0.01%	20 Hz - 20 kHz	Low Pass High Pass	24 dB/oct	9.5 Vrms

## ELECTRONIC CROSSOVERS



Clean, crisp, smooth sound without distortion — that is what you get with an AudioControl electronic crossover. Advanced programmable and steep slope filtering trims frequencies to minimize distortion and power waste. The result: complete, clear, and solid sound.

MODEL	Preamp Inputs	Preamp Outputs	S/N Ratio	THD	Frequency Response	Linkwitz-Riley Crossover		Subsonic Filter (programmable)	Maximum Output Level	Remote Level Control
						Outputs	Slope(s)			
<b>6XS</b>	6	8	> 110 dB	0.005%	10 Hz - 100 kHz	Low Pass Band Pass High Pass	24 dB/oct 18 dB/oct	33 Hz	9.5 Vrms	ACR-1 (included)
<b>2XS</b>	2	4	> 115 dB	0.005%	15 Hz - 20 kHz	Low Pass High Pass	18 dB/oct	33 Hz	9.5 Vrms	NA

# AUDIO MEASUREMENT TOOLS

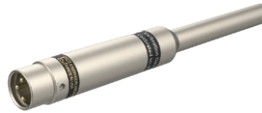
AUDIO INTERFACES	Inputs	Outputs
<b>DM-RTA</b>	XLR, TRS, RCA, Spkr Lvl	TRS, RCA, Digital
<b>DM-RTA BASE KIT</b>	<b>Includes:</b> Hard Case, Test Leads, USB A to A, 12V Power Supply	
<b>DM-RTA PRO KIT</b>	<b>Includes:</b> Hard Case, DM-RTA, AC-BT24, CM-10, XLR cable, USB A to A Test Leads, 12V Power Supply	



Paired with the free DM-RTA app, the DM-RTA™ features a Voltage Meter, RTA (1/3, 1/6, and 1/12 octave), SPL Meter, Polarity Checker and a fully functional Oscilloscope. Base and Pro kits now available. The

Pro Kit includes everything you'll need or get the Base Kit if you already own the DM-RTA.

MEASUREMENT MICROPHONES	Type	Polar Pattern	Max SPL	Freq. Response
<b>CM-10</b>	Condenser	Omni	136 dB	20 Hz - 20 kHz
<b>CM-20</b>	Condenser	Omni	105 dB	20 Hz - 20 kHz
<b>C550H</b>	Condenser	Omni	135 dB	20 Hz - 20 kHz



AudioControl offers a range of measurement microphones. These microphones make a perfect addition to the DM-RTA and the

DM-RTA app comes preloaded with calibration presets for the CM-10, CM-20 and C550H.

iOS MEASUREMENT MICROPHONES	Max SPL	Audio Output	Charging Pass Thru	Connection Type
<b>SA-4100i</b>	120 dB	N	N	Lightning
<b>SA-4140i SPL</b>	140 dB	Y	Y	Lightning



The SA-4100i and SA-4140i SPL are calibrated, full range, omnidirectional test and measurement microphones for direct connection to iOS devices. The free Mobile Tools app gives you RTA, FFT and more.

## ACCESSORIES

Combine the ACM-4.300 and ACM-1.300 under the **ACM-5.600** Cover Plate for a powerful 5 five channel micro amplifier.

ACM COVER PLATE
<b>ACM-5.600</b>



Unleash the power of your DSP or DSP Amp with the AC-BT24 Bluetooth® HD Audio Streamer & Programmer (with aptX™ support).

DASH REMOTES (Remote Level and Programming Controls)	Style
<b>ACR-1</b>	270° Potentiometer
<b>Supported Products:</b> The Epicenter, LC2i, LC2i Pro, LC6i, LC7i, Overdrive Plus, Matrix Plus, 6XS, LC-4.800, LC-5.1300, LC-6.1200, LC-1.800, LC-1.1500, ACM-1.300, ACX-300.1	
<b>ACR-2</b>	Endless Rotary Encoder
<b>Supported Products:</b> LCQ-1, The Epicenter Plus	
<b>ACR-3</b>	Endless Rotary Encoder
<b>Supported Products:</b> LC8i, DQ-61, DQDX, DM-810, DM-608, D-4.800, D-5.1300, D-6.1200	



### OPTION PORT ACCESSORIES

For products with the Option Port

**AC-BT24**  
BLUETOOTH® AUDIO STREAMER & PROGRAMMER

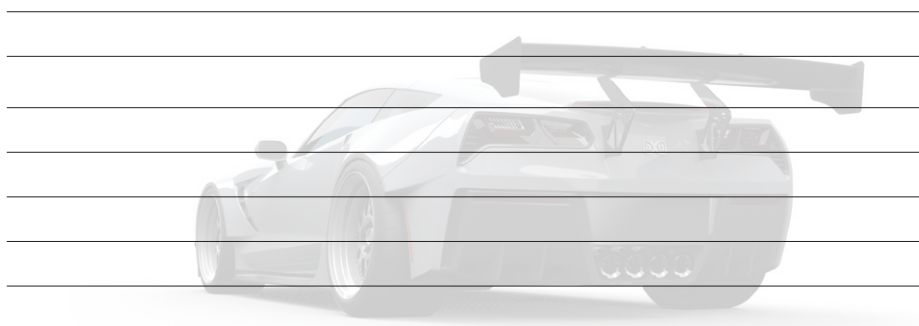


AC-LGDs generate load & stabilize the factory amp signal. Choose from three resistive loads to ensure seamless integration with your OEM sound system.

### LOAD RESISTORS

- AC-LGD**
- AC-LGD 20**
- AC-LGD 60**

## MAKE SOME NOTES!



**AudioControl®**  
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