

PERFORMANCE

MDSP DSP Amplifiers



Designed to Integrate. Built to Perform.

The MDSP amplifier series is engineered for seamless integration into everything from base factory systems to advanced premium OEM audio platforms. With industry-leading power density, a selection of high-grade internal components—including WIMA and other premium capacitors, resistors, and signal-path parts—and a built-in high-resolution DSP, these amplifiers deliver exceptional performance, flexibility, and control—all within an impressively compact chassis.

Designed to overcome the limitations of factory audio, the MDSP series provides a powerful, flexible foundation for system upgrades of any scale. With RMS output ratings of up to 80W x 4 and 160W x 4 at 4 ohms, these amplifiers deliver consistent, clean power across all channels, along with full DSP-managed RCA outputs for effortless system expansion.

Advanced signal processing includes input EQ correction, global EQ, graphic and parametric equalization, adjustable crossovers, and precise per-channel tuning—giving installers complete control over the acoustic environment. Morel's TuneLink feature allows two amplifiers to be adjusted simultaneously from a single computer, without the need for hubs or switchers, streamlining the tuning process.

Compact in size but unmatched in capability, MDSP amplifiers are designed to meet the demands of modern integration while delivering the sound quality and reliability Morel is known for.

Key advantages

- Delivers up to 80W x 4 + 160W x 4 RMS power for dynamic, high-output performance
- Built with premium internal components—including WIMA and other high-grade parts—for enhanced audio performance and long-term reliability
- Accepts up to 8 channels of speaker-level input (up to 30V) for seamless OEM integration
- Provides up to 10 DSP-controlled output channels, including 2V RCA low-level outputs for system expansion
- SLAM (Speaker Load Assurance Module) intelligently engages the OEM amplifier to preserve factory audio functionality
- Features comprehensive tuning controls—including Input EQ, Output EQ, and Global EQ—for precise sound shaping
- Supports speaker-level, RCA, optical, Bluetooth (streaming-capable), and USB-DAC inputs with automatic source switching



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| | MDSP10/8A | MDSP8/6A | MDSP8/4A | MDSP6/4A |
|-----------------------------------|--------------------|--------------------|----------------|----------------|
| RMS POWER @ 14V | | | | |
| 4 Ohm | 80W x 4 + 160W x 4 | 80W x 2 + 160W x 4 | 80W x 4 | 25W x 4 |
| 2 Ohm | 160 x 4 (Ch. 5-8) | 160 x 4 (Ch. 3-6) | - | - |
| Bridgeable | 320 x 2 (Ch. 5-8) | 320 x 2 (Ch. 3-6) | 150 x 2 | - |
| INPUTS | | | | |
| High Level (Speaker) | 8 Ch. | 8 Ch. | 8 Ch. | 4 Ch |
| Low Level (RCA) | 2 Ch. | 2 Ch. | 2 Ch. | - |
| Optical | 1 | 1 | 1 | - |
| USB OTG | 1 | 1 | 1 | - |
| Bluetooth | Optional | Optional | Optional | Built In |
| DRC Connect (optional controller) | Yes | Yes | Yes | Yes |
| OUTPUTS | | | | |
| Topology | Class D | Class D | Class D | Class AB |
| Amplified (Speaker) | 8 Ch. | 6 Ch. | 4 Ch. | 4 Ch. |
| Low Level (RCA) | 2 Ch. | 2 Ch. | 4 Ch. | 2 Ch. |
| SPECIFICATIONS | | | | |
| Sample Rate | 24 Bit / 96kHz | 24 Bit / 96kHz | 24 Bit / 96kHz | 24 Bit / 96kHz |
| THD+N | <0.03% | <0.03% | <0.03% | <0.2% |
| Frequency Response | 20-20,000Hz | 20-20,000Hz | 20-20,000Hz | 20-20,000Hz |
| S/N Ratio (A-weighted) | >98dB | >98dB | >98dB | >96dB |
| DIMENSIONS | | | | |
| Height (H) | 2.03" (51.6mm) | 2.03" (51.6mm) | 2.03" (51.6mm) | 1.37" (35mm) |
| Width (W) | 5.3" (136mm) | 5.3" (136mm) | 5.3" (136mm) | 3.5" (90mm) |
| Length (L) | 10.82" (275mm) | 10.82" (275mm) | 7.08" (180mm) | 4.5" (116mm) |



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