

# MOSCONI GLADEN DSP8TO12 AEROSPACE

## Specifications



|                              |  |
|------------------------------|--|
| <b>ANALOG INPUTS:</b>        | <b>8 (RCA)</b>   |
| <b>ANALOG OUTPUTS:</b>       | <b>12 (RCA)</b>  |
| <b>DIGITAL INPUTS:</b>       | <b>1 coaxial (RCA), 1 optical (toslink), MOS-BTS (optional)</b>  |
| <b>DIGITAL OUTPUTS:</b>      | <b>1 optical (toslink)</b>   |
| <b>NATIVE SAMPLE RATE:</b>   | <b>192 KHz / 24-bit</b>  |
| <b>DSP PERFORMANCE:</b>      | <b>294.912 MHz, 32-bit SigmaDSP<br/>1536 SIMD instructions per sample at 192 kHz<br/>ASRCs from 1:8 up to 7.75:1 ratio and 139 dB DNR<br/>Advanced Multi-bit Delta-Sigma Architecture<br/>24-Bit Conversion<br/>114 dB Dynamic Range<br/>-105 dB THD+N</b> |
| <b>ADC PERFORMANCE:</b>      | <b>118 dB Dynamic Range<br/>-98 dB THD+N<br/>Differential voltage output</b>   |
| <b>DAC PERFORMANCE:</b>      | <b>Low Level (LL) / High Level (HL)<br/>12Kohm (LL) / 47ohm (HL)<br/>1.2Vrms ÷ 8Vrms (LL) / 3Vrms ÷ 20Vrms (HL)<br/>-16.5dB ÷ 0dB<br/>8Vrms<br/>600 ohm<br/>yes</b>  |
| <b>INPUT MODE:</b>           | <b>&gt;102dB "A" (typ. 105dB "A")</b>  |
| <b>INPUT IMPEDANCE:</b>      | <b>&lt;0.003% @ 4Vrms</b>  |
| <b>INPUT SENSITIVITY:</b>    | <b>10Hz ÷ 63KHz</b>  |
| <b>INPUT REGULATION:</b>     | <b>&gt;90dB (@ 100Hz)</b>  |
| <b>MAX OUTPUT SIGNAL:</b>    | <b>&gt;90dB (@ 1KHz)</b>   |
| <b>OUTPUT IMPEDANCE:</b>     | <b>&gt;80dB (@ 10KHz)</b>  |
| <b>HARDWARE MUTE:</b>        |  |
| <b>S/N RATIO:</b>            |  |
| <b>THD DISTORTION:</b>       |  |
| <b>FREQUENCY RESPONSE:</b>   |  |
| <b>CHANNEL SEPARATION:</b>   |  |
| <b>CHANNEL SEPARATION:</b>   |  |
| <b>CHANNEL SEPARATION:</b>   |  |
| <b>SUPPLY VOLTAGE:</b>       | <b>10V ÷ 16V (6V tolerant to sustain engine crank)</b>   |
| <b>CURRENT CONSUMPTION:</b>  | <b>0.9A @ 12V</b>  |
| <b>DC-DC CONVERTER:</b>      | <b>transformer coupled, Current-Mode, Flyback converter</b>  |
| <b>CONVERSION FREQUENCY:</b> | <b>52KHz</b>   |
| <b>AUTOSENSE:</b>            | <b>OFF / BTL / SE</b>  |
| <b>SEPARATE REMOTE OUT:</b>  | <b>yes</b>   |
| <b>REMOTE CURRENT:</b>       | <b>100mA max (Internally limited)</b>  |
| <b>COMMUNICATION:</b>        | <b>USB, RCD/RC-MINI (optional), MOS-BTM (optional).</b>  |
| <b>MISCELLANEOUS:</b>        | <b>Gold finishing PCB</b>  |