TENSOR SERIES

TENSOR 8

8-Channel DSP with 10-Channel Integrated Amplification.

The TENSOR 8 is an 8-channel DSP with 10-channel integrated amplification, designed for compact high-performance systems. It delivers 8 × 40 W + 2 × 80 W at 4 ohm across 10 physical amplified channels, driven by WONDOM's W8 DSP.

DSP IN / OUT	POWER @ 4 OHM	POWER @ 2 OHM	SNR
6 / 8	8 × 40 W + 2 × 80 W	8 × 80 W + 2 × 160 W	102 dB

DSP AND PROCESSING

DSP inputs / outputs	6 / 8
DSP processor	WONDOM proprietary DSP IC (W8)
ADC	ES7210 × 2
DAC	CJC4344H × 4 (2-channel)
Audio resolution	24-bit
Max sampling rate	192 kHz
PC tuning	Supports 8 channels
Equaliser	31-band
Audio decoding	MP3 / FLAC / WAV

INPUTS AND OUTPUTS

Inputs	USB, high-level input, Optical
High-level input	6-channel
AUX input	2-channel
Optical / coaxial	Optical
USB flash drive	Supported
Bluetooth	Bluetooth 5.4 (JL AC6951C8)
High-level output	8 + 2-channel
RCA output	8-channel

AMPLIFIER

Amplifier	TDA7851 + 2 pairs Toshiba 2SC5200 / 2SA1943
Amplifier class	Class AB
Output power @ 4 ohm	8 × 40 W + 2 × 80 W
Output power @ 2 ohm	8 × 80 W + 2 × 160 W
Power notes	10 physical amplified output channels. Delivers 8 × 40 W + 2 × 80 W @ 4 ohm, with DSP channels 5 and 6 each controlling two 40 W amplifier channels.
Load impedance	2 ohm / 4 ohm

AUDIO PERFORMANCE

Signal-to-noise ratio	102 dB (typ.)
THD+N	0.009% (typ.)
Dynamic range	> 102 dB
Channel separation	> 90 dB
Frequency response	20 Hz – 36 kHz
Signal input range	0.05 – 10 Vrms

POWER, ENVIRONMENT AND SIZE

Operating voltage	10 – 16 V
Standby current	< 1 mA
Standby power	< 0.1 W
Operating temperature	-40 °C to 80 °C
Dimensions	230 × 197 × 50 mm
W-ILM load management	Integrated across model range