

bit Ten

Signal Interface Processor

ideato,
progettato,
costruito
in Italia



Power Supply

Voltage:	11 ÷ 15 VDC
Idling current:	0.4 A
Switched off without DRC:	< 2.5 mA
Switched off with DRC:	< 4.0 mA
Remote IN voltage:	7 ÷ 15 VDC (1.3 mA)
Remote OUT voltage:	12 VDC (130 mA)
Distorsion-THD@1 kHz, 1 VR MS Output:	0.005%
Bandwidth@ -3 dB:	10 ÷ 22 kHz
S/N Ratio @ A weighted:	96 dBA
Channel Separation (@1 kHz):	85 dB
Input sensitivity (Low Level):	0.6 ÷ 5 V RMS
Input sensitivity (High Level):	2.0 ÷ 15 V RMS
Max Output Levels:	4 V RMS
Input impedance (AUX):	15 kΩ
Input impedance (High Level):	2.2 kΩ
Inputs:	Low Level (Pre In): AUX L/R High Level (Spk In): FL-FR-RL-RR, Phone IN
Outputs:	Analog Pre Out: Ch1÷Ch5

Crossover

Type:	12/24 dB Linkwitz 6/12/18/24 dB Butterworth
Mode:	Full/HiPass/LowPass/BandPass (independent)

Equalizer

Type:	31 Band, ISO 1/3 Oct, 20 Hz ÷ 20 kHz
Gain:	± 12 dB
Delay:	0 ÷ 22 ms (748 cm/294.5 inch)

Time Alignment

Distance:	0 ÷ 510 cm / 200.8 inch
Delay:	0 ÷ 15 ms
Step:	0.08 ms; 2.8 cm / 1.1 inch
Fine set step:	0.02 ms; 0.7 cm / 0.27 inch

Size

WxHxD (mm/inches):	191 x 34 x 131 7.51" x 1.33" x 4.76"
Weight (kg/lb):	0.6 / 1.322

Audio DSP and converters	32-BIT Cirrus Logic (Clock speed: 147MHz) Digital Signal Processing chip and A/D D/A converters working in PCM at 48kHz with 24 bit resolution. The processor speed allows the user to hear and verify in real time the changes applied during the tuning
Audio Inputs	4 independent high-level channels with automatic summing capability 1 analog low-level stereo auxiliary input 1 high-level momentary audio interrupt input (with Priority Mute) for use with mobile phone
Audio Outputs	5 independent analog PRE channels featuring adjustable level
Digital Control System	1 USB /B (2.0) connector for PC connection 1 AC Link control bus connectors for DRC
Configuration	Guided procedure that, thanks to a wide range of set names, provides the ability to assign each component to the bit Ten connections and automatically coordinate their functioning
Turn-on Controls	ART™ automatic remote turn on/off circuit selectable from Hi-Level inputs Through the car ignition key with memory function Through the DRC (optional) Automatically through the hands-free phone kit
In/Out Volume	Input sensitivity manual adjustable for the Master Hi-Level inputs (with supplied Test CD) Manual input sensitivity adjustment for auxiliary inputs Independent level control for each output channel for system fine tuning (-40 ÷ 0 dB)
De-equalization	Automatic de-equalization of signal fed into the high-level inputs (with supplied Test CD) if necessary. It can also be performed without the PC
Equalizers	One 31-band graphic equalizer (1/3 Oct.; ±12dB) for each analog and digital output channels
Crossover Filter	Filter typology: selectable; Hi-pass, Lo-pass, Full Range, Band pass with independent selectable cut-off slope. Cut-off frequency: 70 steps available from 20Hz to 20kHz Cut-off slope: selectable; 6 to 24 dB/Oct. Selectable alignment: Linkwitz or Butterworth Mute: selectable for each output (On/Off) Phase: selectable for each output (0°/180°)
Signal channels reconstruction	It can reconstruct a stereo signal from a multi-channel signal. In addition it can reconstruct a rear channel, a centre channel and subwoofer channels from a stereo input
Time Alignment	Guided procedure for the speaker distance data entry with an automated calculation (distance to time) of proper delay times for each channel for accurate time alignment set-up (5.0 m/15 ms max). System also provides for manual fine tuning of delay (0.02 ms fine set)
DRC (optional)	Master Volume, Subwoofer Volume, Balance and Fader controls, Input selection, Memory selection, Adjustable display brightness
Memory	2 presets separately managed and recalled by the DRC Remote Control (optional)
bit Ten software	Microsoft Windows (XP, 7 and Vista) based software with "Standard" and "Expert" operating modes