

# bit Ten

Signal Interface Processor

ideato,  
progettato,  
costruito  
in Italia



**Power Supply**

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

**Crossover**

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

**Equalizer**

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

**Time Alignment**

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

**Size**

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

<b>Audio DSP and converters</b>	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
<b>Audio Inputs</b>	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
<b>Audio Outputs</b>	5 independent analog PRE channels featuring adjustable level
<b>Digital Control System</b>	1 USB /B (2.0) connector for PC connection 1 AC Link control bus connectors for DRC
<b>Configuration</b>	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
<b>Turn-on Controls</b>	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
<b>In/Out Volume</b>	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)
<b>De-equalization</b>	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
<b>Equalizers</b>	One 31-band graphic equalizer (1/3 Oct.; ±12dB) for each analog and digital output channels
<b>Crossover Filter</b>	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°)
<b>Signal channels reconstruction</b>	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
<b>Time Alignment</b>	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)
<b>DRC (optional)</b>	Master Volume, Subwoofer Volume, Balance and Fader controls, Input selection, Memory selection, Adjustable display brightness
<b>Memory</b>	2 presets separately managed and recalled by the DRC Remote Control (optional)
<b>bit Ten software</b>	Microsoft Windows (XP, 7 and Vista) based software with "Standard" and "Expert" operating modes