The long years of experience at the top level of broadcasting technologies, as well as the undisputable expertise of our engineering team have brought forth a brand new audio processing tool - the DB6400 FM and Digital Radio 4-Band Audio Processor.

The DSP-based Stereo Encoder guarantees precision of the MPX signal with advanced peak control and two independently-configurable composite MPX outputs. The DB6400 offers perfect audio clarity no matter what the source material is. A complete processing architecture: Wide band AGC with “Intelligent Gating”, 4-band Parametric EQ, Bass FX, Treble FX, 4-Band HQ-Sound dynamic processor with Fidelity control and Sound Impact, 4-Band Limiter, FM Limiter with advanced distortion & pre-emphasis control and HD Lookahead Limiter.

Another feature that distinguishes the DB6400 from other products of its category is its Fallback function. This cutting-edge device is able to detect signal loss. In the case of silence at the main audio input, it automatically switches over to a backup source, thus ensuring a constant audio feed. What is more, an email notification is immediately sent which allows for an instant response on the part of your technical support team. Through the use of a standard FTP client, you have the opportunity to update the backup content at will via any PC. An additional asset is the automatic return to the main audio source as soon as the default input is restored. All silence sense parameters are user-defined.

Needless to say, the DB6400 comes with a user-friendly, comprehensive and well-organized user interface. Access is available through the front panel, remotely via TCP/IP and by using the WEB interface through iOS, Android or any other mobile device.

This one-of-a-kind device is the peak of DEVA’s engineering achievements combining simplicity of use, affordability of price and top performance and employing an array of technical parameters not found in any other device of its class.

FEATuRES

- Software Control (over local network or the Internet using any Windows® PC)
- L/R Analog inputs and outputs and two independent Composite MPX outputs.
- Extensive set of factory presets and several customizable user presets
- Built-in web server for remote control access via TCP/IP connection
- 4-Band Dynamic Processor with Fidelity and Sound Impact System
- Integrated digital stereo generator with advanced peak control
- Level Adjustable, Balanced Analog and Digital Audio Outputs
- Remotely upgradable firmware to ensure improved operation
- SNTP for automatic synchronization of the built-in clock
- Notifications on input/preset change via E-mail and SNMP
- LAN port for full TCP/IP remote control and monitoring
- Bright, wide view angle OLED and full-time LED meters
- Embedded SNMP agent with full device management
- USB communication interface for local connectivity
- Ultra low latency, all-digital DSP based design
- Stereo encoder integrated with audio processing
- Headphone output with front panel level control
- Professional AES/EBU Digital audio inputs
- Externally synchronized output sample rate
- 19” Professional Case for high RF immunity
- Easy setup and control via the front panel

- 4-Band Limiter
- Built-in MP3 Player
- 4-Band Parametric EQ
- HD Lookahead Limiter
- Variety of Audio Sources
- Easy to use WEB interface
- Advanced Wide Band AGC
- Easy Installation and Setup
- Intelligent Silence Detector
- Bypass and Test tone Mode
- Multi-format IP Audio Player
- FM Controlled distortion Limiter
- Tight peak control at all outputs
- EMI-suppressed XLR connectors
- SD Card for Audio Backup Storage
- Apple and Android devices support
- Advanced Bass & Treble FX Controls
- Built in DSP-based RDS/RBDS encoder
- Protected access to the device settings
- Fallback function in case of Audio Loss
- Wide operating voltage range: 100-240V AC
### SPECIFICATIONS

**Analog Audio Input**
- **Connectors**: Main - 2 XLR [1][2]; Auxiliary - DB9 [1][2]
- **Configuration**: Stereo
- **Input level (0 dBFS)**: -8 dBu to +24 dBu peak
- **Impedance**: Jumper selectable 600Ω / >10kΩ
- **A/D Conversion**: 24 bit; 48 kHz sample rate; Differential inputs

**Digital Audio Input**
- **Connectors**: Main - XLR [1][3]; Auxiliary - DB9 [1][3]
- **Configuration**: Stereo AES3 standard, up to 24 bit resolution
- **Sampling Rate**: 22 kHz to 192 kHz
- **Input Gain**: -20 dB to 20 dB, referenced to 0 dBFS, [4]

**Digital Audio Output**
- **Connectors**: XLR [1][3]
- **Configuration**: Stereo AES3 standard, 24 bit resolution.
  - Software selectable flat, pre- or de-emphasized
- **Sample Rate**: Internal - 32,44.1,48,88.2,96,176.4,192kHz.
  - Externally synced to Main AES3 digital input at 32 to 192 kHz. Software selectable.
- **Word Length**: 24 bit
- **Output Ref. Level**: -20 to 0 dBFS software selectable

**Composite Baseband Output**
- **Connectors**: BNC unbalanced, chassis floating, [1]
- **Configuration**: 2 outputs. Independent level control.
  - MPX+MPX, MPX+PILOT or BYPASS
- **Source Impedance**: 75Ω
- **Load Impedance**: >= 600Ω, balanced/unbalanced
- **Signal-to-Noise**: >= 110 dB unweighted [5]
- **Distortion**: <= 0.01 THD/N [5]
- **D/A Conversion**: 24 bit; 192 kHz rate; Differential outputs

**Remote Control Interface (GPI)**
- **Connector**: DB-9 male
- **Configuration**: 8 LED optocoupler, current limited cathode inputs. Anodes are connected to VCC int.
- **Control**: Selects corresponding user preset if connected to GND

**Environmental**
- **Operating Temperature**: 0° to 50°C / 32° to 122°F
- **Humidity**: 0–95% RH, non-condensing

**Power**
- **Voltage**: 100-240 VAC, 50-60 Hz, 30VA
- **Connector**: IEC, Fused and EMI-suppressed.

---

**Remote Access Interface**
- **Configuration**: TCP/IP via USB or Ethernet interface
- **USB Connector**: USB type B connector
- **Ethernet Connector**: Female RJ45,10/100 Mbps CAT5

**Size and Weight**
- **Dimensions (W:H:D)**: 483 x 44 x 180 mm / 19 x 1.875 x 7"
- **Shipping Weight**: 540 x 115 x 300 mm / 2.6kg

---

[1] - EMI suppressed
[2] - Electronically balanced
[3] - Transformer balanced and floating; 110Ω impedance
[4] - Software selectable
[5] - Bypass mode, digital input, flat, 20Hz-15kHz bandwidth, referenced to +12dBu output level
[6] - Bypass mode, flat, 20Hz-15kHz bandwidth, digital input referenced to -10dBFS, unweighted

---

WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS