

TECHNICAL DATASHEET: ACADIA NANO

RDS/RBDS ENCODER – MINI VERSION WITH DISPLAY (MODEL: ACADIA NANO-V2)



1. PRODUCT OVERVIEW

The **ACADIA NANO** is a highly efficient RDS/RBDS data encoder designed for FM radio stations that wish to transmit digital text information alongside their analog audio signal. Acting as the cost-effective, compact version of Biquad Tecnologia's flagship ACADIA encoder, the NANO allows broadcasters to display station names, real-time programming schedules, institutional announcements, and song metadata directly onto the displays of compatible receivers.

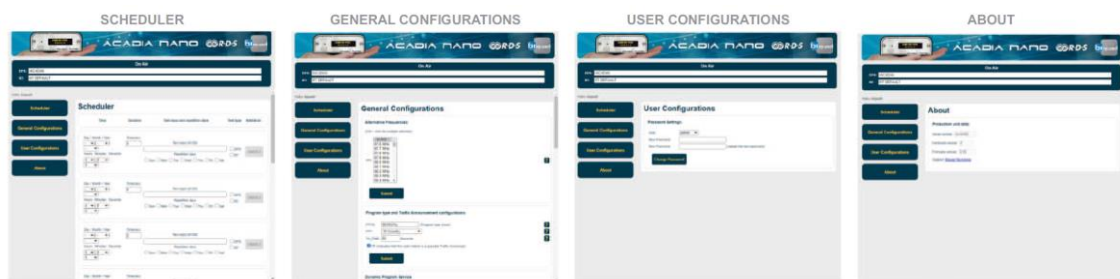


Engineered as part of the **Biquad Modular Line**, its reduced form-factor chassis simplifies installation in high-density racks or space-restricted technical environments without sacrificing the robust functionality required of a professional RDS data generation system.



2. KEY FEATURES

- **Broadcast Data Encoder:** Purpose-built for digital data transmission over FM radio channels.
- **Dual-Standard Compatibility:** Fully compatible with both the European RDS and American RBDS transmission standards.
- **Dynamic Text Streaming:** Enables text message delivery directly via the FM subcarrier network.
- **Web-Based HTML Interface:** Features a simplified, intuitive HTML configuration page accessible via the station's local network for fast parameter adjustments.
- **Integrated Message Scheduler:** Features a dedicated scheduling section to program and automate time-sensitive text transmissions.
- **Real-Time Hardware Monitoring:** Equipped with a front-panel OLED display allowing engineers to visually verify the exact metadata being transmitted to listeners in real-time.



3. INTEGRATION & AUTOMATION

- **Complimentary "CONECTOR" Plug-in:** Bundled for free to bridge the encoder seamlessly with the station's existing playout systems.
- **Universal Playout Interactivity:** Designed to seamlessly integrate with all major radio automation software suites available on the market.
- **Automated Metadata Pulling:** Automatically retrieves and broadcasts song titles, artist information, and player data directly from the active automation workflow.
- **Pre-defined Web Messages:** Supports the injection of user-defined, static text templates pre-configured inside the web control panel.

4. SYSTEM CONFIGURATIONS & PARAMETERS

The encoder provides comprehensive control over critical subcarrier variables, ensuring optimal performance and expanded audience engagement:

- **Program Service (PS) Identification:** Configures the primary static or dynamic station name displayed on user receivers.
- **Alternative Frequencies (AF):** Enables smooth mobile tuning by telling the receiver which frequencies carry the same network broadcast.
- **Program Type (PTY):** Sets the station's specific programming category (e.g., Pop, News, Rock) for advanced receiver filtering.
- **RDS Text Transmission:** Fully customizable data mapping for dynamic radiotext fields.

5. HARDWARE & MECHANICAL DESIGN

- **Modular Architecture:** Housed in a compact, signature Biquad modular enclosure.
- **Flexible Deployment:** Can be used free-standing or seamlessly integrated into a standard 19" technical rack using an optional front-panel adapter.
- **Visual User Interface:** Front-panel visual layout optimized for instant status verification.
- **Regulatory Compliance:** CE Certified.

6. PHYSICAL SPECIFICATIONS

Product Dimensions & Weight

Parameter	Value
Product Dimensions (W x H x D)	6.30" x 0.18" x 5.31" / (160 mm x 4.5 mm x 135 mm)
Net Weight (Without Packaging)	0.65 kg (1.43 lbs)
Gross Weight (With Packaging)	1.10 kg (2.42 lbs)

Shipping & Packaging

Parameter	Value
Packaging Box Dimensions (W x H x D)	25 cm x 5 cm x 22.5 cm
Shipping Volume (Cubage)	0.0028125 m ³



+55 35 3471-6399



www.biquad.com.br



vendas@biquad.com.br



Rua Marcos Flávio e Dias, 260 - Fernandes
Santa Rita do Sapucaí - MG - Brazil CEP: 37540-00

[@biquadbroadcast](https://www.instagram.com/biquadbroadcast)

