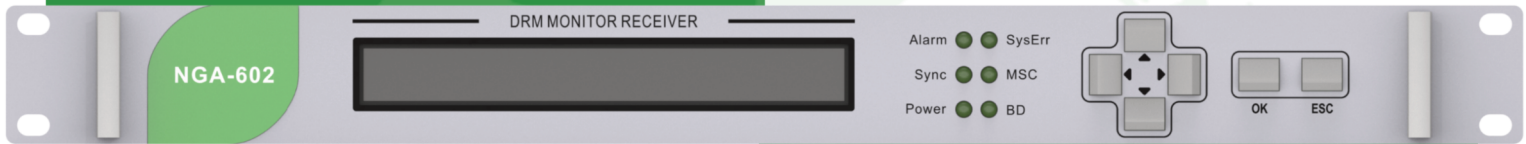


NGA-602

DRM Monitor Receiver



Product Overview

The Newglee NGA-602 DRM Monitoring Receiver is a professional-grade digital broadcast monitoring device designed for receiving, decoding, and analyzing Digital Radio Mondiale (DRM) signals. It features a comprehensive web-based interface for real-time spectrum monitoring, service selection, signal quality analysis, logging, and recording playback.

Highlights

- **Multi-Service Support:** Decodes and displays up to 4 concurrent DRM services including audio, text, slideshows, and Journaline.
- **Advanced Signal Analysis:** Real-time monitoring of MER, SNR, RF level, and synchronization status.
- **Recording & Playback:** Supports IQ recording up to 2 hours and offline analysis.
- **Alarm Management:** Configurable thresholds for MER and RF level with historical logging.
- **Web-Based Interface:** Modern, responsive UI accessible via any standard browser.

Features

- **Frequency Range:** 500 kHz – 30 MHz (MF, HF).
- **Modes Supported:** A, B, C, D for MF/HF;
- **Decoding Capabilities:** xHE-AAC, HE-AACV2 audio; MOT, Journaline, text message.
- **Interface:** Dual Gigabit Ethernet, USB, front-panel LCD and keypad.
- **Recording:** IQ format, up to 2 hours continuous, 512 GB internal storage.
- **Alarms:** Configurable for MER, RF level, audio status.
- **Web UI:** Real-time data via WebSocket, exportable logs and diagnostics.

Technical Specifications

DRM Features

- Robustness Mode: A, B, C, D (DRM30);
- Standards: ETSI ES 201 980 DRM
- Frequency Range: 500 kHz – 30 MHz
- Bandwidths: 4.5, 5, 9, 10, 18, 20 kHz
- Modulation: 4QAM, 16QAM, 64QAM
- Audio Codecs: xHE-AAC, HE-AACV2
- Data Services: Journaline, MOT Slideshow, Text Messages
- Max Services: 4 con-current

Signal Monitoring

- Linearity: +10 dBm IIP3
- Dynamic Range: 100 dB BDR
- MER Range: 0–70 dB, ±0.5 dB accuracy
- SNR Range: 0–70 dB, ±0.5 dB accuracy
- Synchronization: Auto detection and tracking

Interfaces (Input & Output)

- RF IN: 1xBNC for signal input
- 2×10/100/1000BASE-T (RJ-45) for management and data output (or remote data backup)
- USB: 1xUSB type A for device configuration or future feature expansion
- GPS: Optional external input for time sync
- RS232: 1x UART for configuration

Monitoring & Recording

- Spectrum Display: Real-time FFT and waterfall
- Data Logging: CSV export, auto or manual
- Recording Format: 16-bit IQ samples
- Max Record Time: 2 hours for each record
- Storage: 512 GB internal

Management

- Web: Integrated web console
- LCD: 2 x 40 front panel LCD for status monitoring
- SNMP

Physical & Environment

- Mounting: 1RU 19" rackmount chassis
- Dimensions (W x H x D): 438mm x 44mm x 330mm

Power

- Input: AC 110V - 240V @ 50/60Hz
- Typical Power Consumption: 25 watts