

Transmisor Blue Plus 1000 LCD

ÚLTIMA TECNOLOGÍA EN TRANSMISORES DE FM

Alta eficiencia, mínimo espacio, económico y potente.



Principales características

- Pantalla táctil a color LCD para una fácil definición de parámetros de ajuste y lectura.
- Extremadamente baja distorsión: THD, IMD y TIM
- Estéreo de muy altas características: separación TIP. 60dB
- Entradas L/R, RDS/SCA, AUX, MPX, AES-EBU (XLR y óptica), Audio IP
- Seis memorias de parámetros disponibles (frecuencia, sensibilidad, potencia, etc.) que permiten almacenar configuraciones diferentes.
- Listo para sistemas N+1
- Completamente de banda ancha
- Control remoto para supervisión y telegestión vía LAN, RS485
- Amplificadores de RF utilizando la última generación de semiconductores de potencia de RF LDMOS
- Control de potencia automático (APC) permite mantener estable la potencia de RF preseleccionada hasta ROE 1.5: 1. Mayor valor ROE provoca reducción de potencia
- Potencia de salida nominal RF 1000 W. Ajustable desde 0 hasta 1000 W
- Incluye filtro de armónicos RF y medidor de potencia
- Alta pureza espectral
- Cumple con normativas CCIR y FCC

General

- Power Output: 1000W adjustable from front panel.
- RF Output Impedance: 50 ohm.
- RF Output Connector: DIN 7/16" female.
- Monitor RF: BNC connector.
- VSWR: 10:1
- Frequency Range: 87.5 ÷ 108.00 MHz.
- Programmable in 10 kHz steps.
- Frequency Stability: ±1 ppm from -5 to 45°C.
- External Reference: 10 MHz BNC connector back panel.
- Type of Modulation: analog synthesis.
- Off Lock Attenuation: ≥ -80 dBc.
- Modulation Capability: ±150 KHz.
- Limiter built in
- Power Good Detector: adjustable from 20÷90% of the power.
- Audio Presence Detector: adjustable time from front panel.
- External AGC: Automatic, with fine ADJ from front panel.
- Modulation Mode: Mono, Stereo, Multiplex, SCA, RDS, Aux.
- Preemphasis: Flat/50/75µs selectable from front panel.
- Asynchronous AM S/N Ratio: -70 dB.
- Synchronous AM S/N Ratio: -65 dB .
- RF Harmonics: Exceeds EBU/CCIR/FCC requirements.
- RF Spurious: Exceeds EBU/CCIR/FCC requirements.

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Monoaural operation

- Audio Input Impedance: 600 ohm - ≥ 10 Kohm balanced.
- Audio Input Level: -6 to +12 dBm
- Input Connector: XLR female.
- Audio Frequency Response: ± 0.1 dB, 30 Hz to 15 KHz.
- Total Harmonic Distortion + Noise: 0.01% @ 400 Hz.
- Intermodulation Distortion: 0.01%, 1 KHz/1.3 KHz, 1:1 ratio.
- Transient Intermodulation Distortion: 0.01% 2.96KHz square wave and 14 KHz sine wave.
- Distortion: 0.01% 2.96KHz square wave and 14 KHz sine wave.
- FM S/N Ratio: -85 dB rms detector, -80 dB below ± 75 KHz deviation.

Stereo operation

- Audio Input Impedance: 600 ohm - ≥ 10 Kohm balanced.
- Audio Input Level: -6 to +12 dBm
- Input Connector: XLR female.
- Audio Frequency Response: ± 0.1 dB, 30 Hz to 15 KHz.
- Total Harmonic Distortion + Noise: 0.01% @ 400 Hz.
- Intermodulation Distortion: 0.01%, 1 KHz/1.3 KHz, 1:1 ratio.
- Transient Intermodulation Distortion: 0,01% 2.96KHz square wave and 14KHz sine wave.
- FM S/N Ratio: -85 dB rms detector, -80 dB below ± 75 KHz deviation.
- Stereo Separation: -45 dB@30Hz \geq -60dB@ Freq ≥ 100 KHz
- Crosstalk attenuation: ≥ 45 dB@15kHz.
- 38 KHz Suppression: ≥ -85 dB.
- Pilot Frequency: 19 KHz ± 1 Hz
- Output Pilot: 2Vpp adjustable from front panel.

Multiplex operation

- Composite Input Impedance: 2 Kohm unbalanced.
- Composite Input Level: -6 to +18 dBm
- Input Connector: BNC female.
- Composite Amplitude Response: ± 0.1 dB, 30 Hz to 100 KHz.
- Total Harmonic Distortion + Noise: 0.01% @ 400 Hz.
- Intermodulation Distortion: 0.01%, 1 KHz/1.3 KHz, 1:1 ratio.
- Transient Intermodulation Distortion: 0.01% 2.96KHz square wave and 14 KHz sine wave.
- FM S/N Ratio: -85 dB rms detector, -80 dB below ± 75 KHz deviation

AES/EB operation (optional Analog)

- Input Connector: XLR female, optical TOS-LINK.
- Data Format: S/PDF, AES/EBU, IEC958, EIAJCP340/1201.
- D/A Converter: 24 bit.
- Sampling Frequency: from 32 to 96 KHz.

Audio IP (optional)

- Lan: Audio IP and Web interface to control and configure
- Transport protocol: RTP over UDP;
- Protocols: RFE Codec: Alaw, OGG VORBIS, MP3, AAC
- SHOUTCAST/ICECAST Codec : TX MP3, RX AAC, AAC+, MP3, OGG(icecast 2.x)

SCA, RDS, AUX operation

- Input Impedance: ≥ 2 Kohm.
- Input Level: -6 to +12 dBm.
- Frequency Response: ± 0.1 dB, 50 KHz to 100 KHz.
- Input Connector: BNC female.

Auxiliary connections

- RS485: DB9 connector back panel.
- CAN BUS (optional): DB9 connector back panel.
- Telemetry Interface: connector DB25 back panel.
- LAN: RJ45 connector back panel
- MPX OUT: connector BNC back panel.

Options

- RDS/RBDS Programmable Coder via PC.
- OIRT or JPN version.
- SNMP
- Audio Over IP
- AES/EBU (only analog)

Electrical

- AC Input Power: 90 \pm 260 VAC 50/60 HZ single phase.
- AC Apparent Power Consumption: 1360 VA
- Cos $\Phi > 0.98$.
- Cooling: Forced air.
- Acoustic noise: < -56 dBa @ 1 meter.

Environmental

- Operating temperature: -10°C to +50°
- C. Max Operating Altitude: 4500 mt.
- Relative Humidity Range: 0 to 90%.

Physical dimension

- Mounting: Standard 19" chassis 2 U rack.
- Size: W x 483 mm. D x 470 mm. H x 88 mm.
- Weight: 10Kg.

Software update

- Core micro: Via web



Pantalla táctil LCD a color