

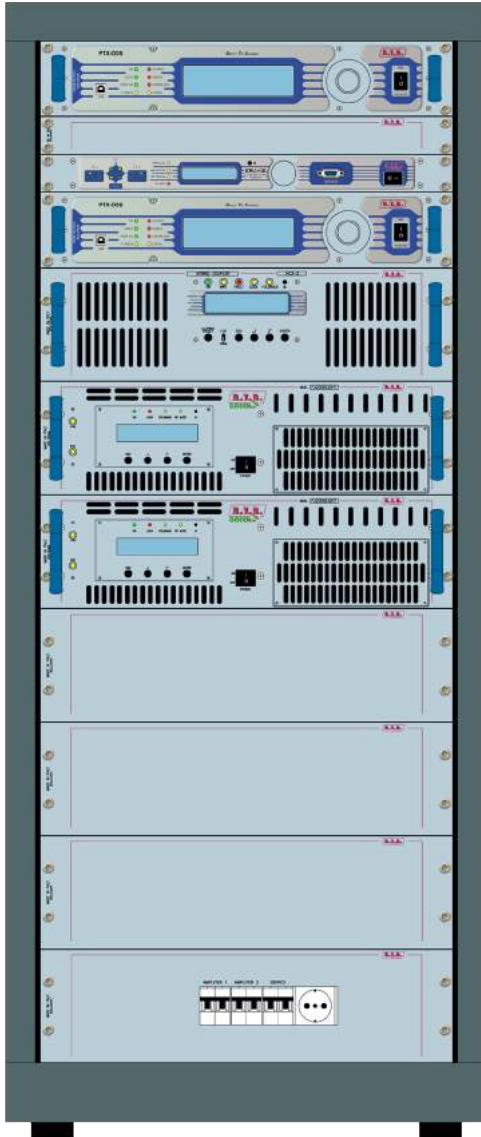
solid state transmitter

> Compact series



TX04K COMPACT

2X PJ2000LIGHT ●●○○○○
REDUNDANCY



TX04KSS/61D072B front view

Features

- > **HARDWARE FEATURES:** compact design and an excellent price/performance ratio make these transmitters ideal for mid-power applications. Modular concept makes for redundant "N+1" configurations to customer specifications suited for all applications.
- > **POWER & QUALITY:** modular design concept supports configurations in a broad range of power ratings up to 4 kW also incorporating low-cost compact exciters. Design solutions ensure the utmost RF efficiency and output power stability with automatic gain control. In addition, by integrating LDMOS technology, is guaranteed an high efficiency.
- > **RELIABILITY & REDUNDANCY (business continuity):** the compact transmitter series also offers high reliability, with such features as dual power supply for amplifiers and limited power-operation in the event one of the power modules fails.
- > **USER-FRIENDLY FEATURES:** user-friendly software and a simple, intuitive HM interface let you easily set up and control all machine operating parameters.
- > **EASE OF MAINTENANCE:** accessibility and ease of maintenance are ensured by advanced modular engineering concepts incorporated in the transmitter and by its lightweight components.
- > **REMOTE CONTROL:** the device comes with a powerful and complete telemetry system, available optionally.

Caratteristiche

- > **HARDWARE FEATURES:** la compattezza degli apparati e l'ottimo rapporto prezzo/prestazioni, rendono ottimale l'utilizzo di questi trasmettitori in applicazioni di media potenza. Grazie alla modularità del sistema è possibile realizzare composizioni ridondanti "N+1" su specifiche richieste del cliente e per ogni tipologia di applicazione.
- > **POWER & QUALITY:** la modularità del sistema permette configurazioni con molteplici tagli di potenza fino a 4 kW prevedendo anche l'inserimento di eccitatori della famiglia low-cost compact. Le soluzioni progettuali adottate assicurano massima efficienza RF e stabilità della potenza di uscita con il controllo automatico del guadagno. Inoltre integrando tecnologia LDMOS si garantiscono rendimenti elevati.
- > **RELIABILITY & REDUNDANCY (business continuity):** anche la famiglia dei trasmettitori compatti possiede un'alto livello di affidabilità: nel caso in cui uno dei moduli di potenza si guasti l'apparato continua l'operatività a potenza ridotta.
- > **USER-FRIENDLY FEATURES:** un software con interfaccia semplice ed intuitiva permette di configurare e controllare in maniera elementare tutti i parametri di esercizio della macchina.
- > **EASE OF MAINTENANCE:** l'accessibilità e semplicità di manutenzione è garantita da una avanzata ingegnerizzazione modulare del trasmettitore e dal peso contenuto degli apparati di cui è composto.
- > **REMOTE CONTROL:** opzionalmente, un potente e completo sistema di telemetria corredo l'apparato.

solid state transmitter

Technical specifications

| Parameter | Value |
|--|---|
| TX04KSS/61D072B | |
| GENERALS | |
| RF Output Power | 4 kW |
| Frequency Range | 87.5 – 108 MHz |
| Frequency Stability | > 1 ppm |
| Frequency programmability | By software, with 1, 10, 100, 1000 kHz steps |
| Nominal Frequency Deviation | ±75 KHz (peak) |
| Maximum Frequency Deviation | ±150 KHz (peak) |
| Class of Emission | 180KF8E Direct to Channel |
| Modulation Mode | Mono, Stereo, Multiplex, SCA, RDS, Aux |
| Stereo transmissions | Acc. to ITU-R / Rec. 450 (Pilot tone) |
| RF Output Impedance | 50 Ω, Unbalanced |
| RF Output Connector | 1-5/8" EIA Flange |
| VSWR | 1.4:1 with automatic fold-back at higher VSWR |
| Pre-emphasis Mode | 0/50 (CCIR) μs, 75 (FCC) μs |
| Asynchronous AM S/N Ratio | Typically > 70dB |
| Synchronous AM S/N Ratio | Typically > 55dB |
| Harmonics suppression and Spurious | Typically < 85dB |
| Overall efficiency | Typically > 70% |
| RF Harmonics | Exceeds ETSI/CCIR/FCC requirements |
| RF Spurious | Exceeds ETSI/CCIR/FCC requirements |
| Analogue Input level {±75 KHz (peak) deviation } | -12.5 dBu - +12.5 dBu (adjustable) |
| Digital Input level {±75 KHz (peak) deviation } | -20.0 dBFS – 0 dBFS (adjustable) |
| MONO OPERATION | |
| S/N ratio | Typically > 83dB |
| Total Harmonic Distortion + Noise | Typically < 0.03% |
| Inter Modulation Distortion SMPTE | Typically < 0.02% |
| Frequency Response | Typically ±0.2dB |
| Audio Input Impedance | 600 Ω or 10 kΩ |
| MPX OPERATION | |
| Composite S/N ratio | Typically > 80dB |
| Total Harmonic Distortion + Noise | Typically < 0.05% |
| Inter Modulation Distortion | Typically < 0.05% |
| Frequency Response | Typically ±0.2dB |
| Audio Input Impedance | 10 kΩ |
| STEREO OPERATION | |
| Stereo FM S/N Ratio | Typically > 83dB |
| Total Harmonic Distortion + Noise (L or R) | Typically < 0.02% |
| Inter Modulation Distortion SMPTE (L or R) | Typically < 0.02% |
| Frequency response (L or R) | Typically ±0.2dB |
| Linear Cross Talk | Typically > 50dB |
| Non-linear Cross Talk | Typically > 50dB |
| Stereo Separation (Sine Wave) | Typically > 70dB |
| Audio Input Impedance | 600 Ω or 10 kΩ |
| Digital Input Impedance | 110 Ω |

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.

CE 99/5/CE Revision: 11/14

Ordering Information

| Code -Codice | Description - Descrizione |
|--|---|
| Options for TX04K COMPACT – Opzioni per TX04K COMPACT | |
| TX04KSS/61D072B | FM compact transmitter, 4kW (composed of HC2 + 2x PJ2000LIGHT + SCML1+1SL/V2 + 2x PTX100DDS). Trasmittitore compatto FM, 4kW (composto da HC2 + 2x PJ2000LIGHT + SCML1+1SL/V2 + 2x PTX100DDS). |
| TX04KSS/42D072B | FM compact transmitter, 4kW (composed of HC2 + 2x PJ2000LIGHT + SCML1+1SL/V2 + 2x PTX60LCDDSP). Trasmittitore compatto FM, 4kW (composto da HC2 + 2x PJ2000LIGHT + SCML1+1SL/V2 + 2x PTX60LCDDSP). |
| TX04KSS/23D072B | FM compact transmitter, 4kW (composed of HC2 + 2x PJ2000LIGHT + SCML1+1SL/V2 + 2x PTX60LCD). Trasmittitore compatto FM, 4kW (composto da HC2 + 2x PJ2000LIGHT + SCML1+1SL/V2 + 2x PTX60LCD). |
| TX04KSS/03D072B | FM compact transmitter, 4kW (composed of HC2 + 2x PJ2000LIGHT + SCML1+1SL/V2 + 2x TEX100LCD/S). Trasmittitore compatto FM, 4kW (composto da HC2 + 2x PJ2000LIGHT + SCML1+1SL/V2 + 2x TEX100LCD/S). |
| TX04KSS/61S072 | FM compact transmitter, 4kW (composed of HC2 + 2x PJ2000LIGHT + PTX100DDS). Trasmittitore compatto FM, 4kW (composto da HC2 + 2x PJ2000LIGHT + PTX100DDS). |
| TX04KSS/42S072 | FM compact transmitter, 4kW (composed of HC2 + 2x PJ2000LIGHT + PTX60LCDDSP). Trasmittitore compatto FM, 4kW (composto da HC2 + 2x PJ2000LIGHT + PTX60LCDDSP). |
| TX04KSS/23S072 | FM compact transmitter, 4kW (composed of HC2 + 2x PJ2000LIGHT + PTX60LCD). Trasmittitore compatto FM, 4kW (composto da HC2 + 2x PJ2000LIGHT + PTX60LCD). |
| TX04KSS/03S072 | FM compact transmitter, 4kW (composed of HC2 + 2x PJ2000LIGHT + TEX100LCD/S). Trasmittitore compatto FM, 4kW (composto da HC2 + 2x PJ2000LIGHT + TEX100LCD/S). |