



**PTRLNV RXRLNV Studio Link 200/1100-1400/2400 MHz**



**PTRLNV/S3 RXRLNV Studio Link 200/1100-1400/2400 MHz**

AMPLIFIERS  
TRANSMITTERS  
ANTENNAS  
ACCESSORIES



# PTRLNV RXRLNV PTRLNV/S3 RXRLNV

## PTRLNV e PTRLNV/S3 Features

- 1 Synthesized transmitter 10 KHz (or 20 KHz) steps, on 200-1100 MHz (1400-2400 MHz) band, controlled through microprocessor
- 2 Power output continuously adjustable
- 3 Final power stage protected against a VSWR excess level
- 4 Display of all operating parameters: forward power, DC voltages, power amplifier current and PLL voltage
- 5 Led modulation meter with peak indicator
- 6 Expandend scale for stereo, SCA or RDS subcarrier readings
- 7 Selectable linear input on 15 KHz low-pass filter mono input
- 8 Available with three additional SCA inputs and Telemetry output (optional only for PTRLNV version)
- 9 RS232 interface for frequency programmability and R.F. mute (optional for both versions)
- 10 Built-In stereo coder for PTRLNV/S3 version

## RXRLNV Features

- 1 Synthesized receiver 10 KHz (or 100 KHz) steps on 200-1100 MHz (1400-2400 MHz) band, controlled through microprocessor
- 2 Frontal panel meter function switch through LED multiplier 10
- 3 Multimeter to measure: field-strength, tuning center, forward power, PLL voltage
- 4 Possible introduction of a low-pass filter on mono and/or linear outputs
- 5 Monitor output on 8 Ohm

## PTRLNV e PTRLNV/S3 Caratteristiche

- 1 Trasmettitore sintetizzato con step di 10 KHz (o 20 KHz) in banda 200-1100 MHz (1400-2400 MHz) controllato da microprocessore
- 2 Potenza d'uscita regolabile con continuità
- 3 Stadio finale protetto contro un eccessivo livello di ROS
- 4 Multimetro per la lettura dei parametri di funzionamento: potenza diretta, tensioni interne, corrente dello stadio finale e tensione del PLL
- 5 Visualizzatore di modulazione a barra di led con rivelatore di picco
- 6 Espansore si scala per la misura del livello di eventuali sottoportanti (SCA, Radio Data System)
- 7 Filtro passa-basso a 15 KHz inseribile sull'ingresso mono e/o lineare
- 8 Predisposizione (opzionale solo per il PTRLNV) per eventuali ingressi SCA e uscite per la telemetria
- 9 Porta di comunicazione seriale RS232 per cambio di frequenza a distanza e inibizione della potenza di uscita
- 10 Stereo coder incorporato per la versione PTRLNV/S3

## RXRLNV Caratteristiche

- 1 Ricevitore sintetizzato con step di 10 KHz (o 100 KHz) in banda 200-1100 MHz (1400-2400 MHz) controllato da microprocessore
- 2 Misuratore audio a barra di led con espansore di scala per 10
- 3 Multimetro per misura di intensità di campo ricevuto centro sintonia tensioni interne
- 4 Possibilità di inserimento di filtro passa-basso su uscite mono e/o lineare
- 5 Uscita monitor su 8 Ohm

## PTRLNV e PTRLNV/S3 Caractéristiques

- 1 Transmetteur synthétisé 10 KHz (ou 20 KHz) steps, en bande de 200-1100 MHz (1400-2400 MHz) contrôlé par microprocesor
- 2 Puissance de sortie réglable avec continuité
- 3 Stade de puissance protégé par un excès de "VSWR"
- 4 Multimètre pour la lecture des paramètres de fonctionnement tels que: puissance directe, voltages internes, courant stade de puissance, voltage du PLL
- 5 Visualization de modulation par barre de LED avec "Absolute-Value Peak"
- 6 Système de mesure de déviation expansible pour la lecture du niveau d'éventuels sous-porteurs (SCA, RDS)
- 7 Filtre passe-bas à 15 KHz branchable rüen entrée mono et/ou linéaire
- 8 Prévu pour 3 entrées SCA et eventuelles sorties de télémétrie (optionnel pour le PTRLNV)
- 9 Interface de communication sérielle RS232 pour changement de fréquence à distance et blocage RF (optionel pour le PTRLNV et le PTRLNV/S3)
- 10 Codificateur stéréo incorporé pour la version PTRLNV/S3

## RXRLNV Caractéristiques

- 1 Récepteur synthétisé 10 KHz (ou 100 KHz) steps en bande de 200-1100 MHz (1400-2400 MHz) contrôlé par microprocesseur
- 2 Mesureur de niveau audio par barre de LED avec expenseur d'échelle par 10
- 3 Multimètre pour la mesure de l'intensité du champ reçu, syntonisation, voltage interne
- 4 Possibilité d'insertion d'un filtre passe-bas sur sortie mono et/ou linéaire
- 5 Sortie monitor sur 8 Ohm

## RXRLNV Features

- 6 RS232 interface for frequency programmability and R.F. mute (option)
- 7 DC input power through outside batteries (option)
- 8 Prearranged to unhook link on muting threshold (option)

## RXRLNV Caratteristiche

- 6 Porta di comunicazione seriale RS232 per cambio frequenza e silenziamento audio a distanza (Opzione)
- 7 Alimentabile con accumulatori esterni (opzione)
- 8 Predisposto per sgancio ponte su soglia del muting (opzione)

## RXRLNV Caractéristiques

- 6 Interface de communication série RS232 pour changement de fréquence à distance et blocage RF (option)
- 7 Alimentable par accumulateurs externes (option)
- 8 Prévu pour décrochage du pont sur réglage du muting (option)

## TECHNICAL SPECIFICATIONS PTRLNV PTRLNV/S3 - RXRLNV

### PTRLNV Radio Link Transmitter

- A.C. Power Source: 110 or 220 V  $\pm 10\%$ , 50-60 Hz, single phase 49 W, 24 VDC optional Forced ventilation
- Cooling: 82.00 mm (03.22") H
- Chassis Dimensions: 326.00 mm (12.83") D  
445.00 mm (17.51") W  
19", 2 HE
- Panel Dimensions: 10 Kg (22Lbs)
- Weight: 200-1100 (1400-2400) MHz
- Frequency Range:  $\pm 1$ ppm
- Frequency Error: direct carrier frequency modulation
- Modulation type: from 0.2 W to 10 W for 200-1100 MHz frequency range (other on request)
- Output Power: from 0.2 W to 5 W for 1400-2400 MHz frequency range
- Output Impedance: 50 Ohm
- R.F. Output Connector: N-type
- Preemphasis: 75  $\mu$ Sec for FCC standard  
50  $\mu$ Sec for CCIR standard
- Spurious & Harmonic suppression: meets or exceeds all FCC and CCIR requirements

### MONOAUROURAL OPERATION

- Mono Input: 1 unbalanced BNC connector
- Mono Input Impedance: 1 KOhm
- Audio Input Level: -10dBu nominal for  $\pm 75$  KHz deviation at 400 Hz, adjustable
- Audio Frequency Response:  $\pm 0.5$  dB from 30 Hz to 15 KHz
- FM S/N ratio: 70 dB below,  $\pm 75$  KHz deviation at 400 Hz measured in the 40 Hz to 20 KHz band by RMS detector
- Total Harmonic Distortion: 0.05% at 1KHz

### COMPOSITE OPERATION

- MPX Input: 1 unbalanced BNC connector
- MPX Input Impedance: 10 KOhm
- Audio Input Level: -10 dBu nominal for  $\pm 75$  KHz deviation at 400 Hz, adjustable
- Amplitude Response:  $\pm 0.3$  dB from 30 Hz to 100 KHz
- FM S/N ratio: 65 dB below,  $\pm 75$  KHz deviation at 400 Hz right and left channel decoded and de-emphasized
- Total Harmonic Distortion: 0.1% ,typical 0,05% or less measured at 1KHz
- Stereo Separation: greater than 50dB (typical 55 dB)

### SCA OPERATION (OPTIONAL)

- SCA Input: 3 unbalanced BNC connector
- SCA Input Impedance: 10 KOhm
- SCA Input Level: 0dBu nominal for  $\pm 7,5$  KHz deviation at 400 Hz, adjustable
- Amplitude Response:  $\pm 0.5$  dB from 40 Hz to 100 KHz

### RXRLNV Radio Link Receiver

- Frequency Range: 200-1100 MHz in Sub-Bands of 20 MHz  
1400-2400 MHz in Sub-Bands of 50 MHz
- Sensitivity: Composite: 1 mV or less required for 65 dB SNR, left or right channel deemphasized, demodulated  
Monoaural: 100  $\mu$ V or less required for 65 dB SNR
- Selectivity: 5 dB IF bandwidth  $\pm 100$  KHz  
70 dB if bandwidth  $\pm 600$  KHz
- Modulation Outputs: Composite: +13 dBu, unbalanced, type BNC female connector  
Monoaural: +13 dBu, unbalanced, type BNC female connector  
SCA (opt): 0dBu, unbalanced, type BNC female connector
- Stereo Separation: 45 dB (typical 50 dB), from 40 Hz to 15 KHz
- Total Harmonic Distortion: 0.2% ,typical 0,1% or less measured at 1KHz
- R.F. Input Connector: N-type
- Input Impedance: 50 Ohm
- A.C. Power Source: 110 or 220 V  $\pm 10\%$ , 50-60 Hz, single phase 22 W, 24 VDC optional Forced ventilation
- Cooling: 82.00 mm (03.22") H
- Chassis Dimensions: 326.00 mm (12.83") D  
445.00 mm (17.51") W  
19", 2 HE
- Panel Dimensions: 10 Kg (22Lbs)
- Ambient operating temperature: from -10° C to +50° C
- Humidity: 90% maximum, non-condensing
- Weight: 9 Kg (20Lbs)

### PTRLNV/S3 Radio Link Stereo Transmitter

- A.C. Power Source: 110 or 220V  $\pm 10\%$ , 50-60Hz, single phase 49W, 24VDC optional Forced ventilation
- Cooling: 129.00 mm (05.08") H
- Chassis Dimensions: 341.00 mm (13.43") D  
446.00 mm (17.56") W  
19", 3HE
- Panel Dimensions: 12Kg (26.4Lbs)
- Weight: 200-1100 (1400-2400) MHz
- Frequency Range:  $\pm 1$ ppm
- Frequency Error: direct carrier frequency modulation
- Modulation type: from 0.2W to 10W for 200-1100MHz frequency range (other on request)
- Output Power: from 0.2W to 5W for 1400-2400MHz frequency range
- Output Impedance: 50 Ohm
- R.F. Output Connector: N-type
- Preemphasis: 75 $\mu$ Sec for FCC standard  
50 $\mu$ Sec for CCIR standard
- Spurious & Harmonic suppression: meets or exceeds all FCC and CCIR requirements

### MONOAUROURAL OPERATION

- Mono Input: 1 balanced or unbalanced XLR connector
- Mono Input Impedance: 10 KOhm (600 Ohm on request)
- Audio Input Level: adjustable from +9 to -12dBm, nominal for  $\pm 75$ KHz deviation adjustable
- Audio Frequency Response:  $\pm 0.5$ dB from 30Hz to 15KHz
- FM S/N ratio: 70dB below,  $\pm 75$ KHz deviation at 400Hz measured in the 30Hz to 20KHz band by RMS detector
- Total Harmonic Distortion: 0.1% ,typical 0,05% or less measured at 1KHz

### COMPOSITE OPERATION

- Composite Inputs: 3 total, 1 for MPX and 2 for SCA MPX Input
- MPX Input Impedance: 1 balanced or unbalanced XLR connector
- MPX Input Level: 10 KOhm (600Ohm on request)
- Composite Amplitude Response: adjustable from +9 to -12dBm, nominal for  $\pm 75$ KHz deviation adjustable
- Composite FM S/N ratio:  $\pm 0.3$ dB from 30Hz to 100KHz
- Composite Total Harmonic Distortion: 70dB below,  $\pm 75$ KHz deviation at 400Hz right and left channel decoded and de-emphasized
- Composite Intermodulation Distortion: less than 0.1% (0.05% typical)
- Stereo Separation: 0.05% or less, measured with a 1KHz and a 1.3KHz tones, 1:1 ratio at 100% modulation

### SCA OPERATION (OPTIONAL)

- SCA Input: 1 unbalanced BNC connector
- SCA Input Impedance: 10 KOhm
- SCA Input Level: 0dBm nominal (775mVrms 2.2Vpp)
- Amplitude Response: for  $\pm 7,5$ KHz deviation  $\pm 0.5$ dB from 40KHz to 100KHz

### STEREO OPERATION

- Audio Input Left/Right: 1 balanced or unbalanced XLR connector
- Audio Input Impedance: 10 KOhm (600 Ohm on request)
- Audio Input Level: adjustable from +9 to -12dBm, nominal for  $\pm 75$ KHz deviation adjustable
- Audio Frequency Response:  $\pm 0.5$ dB from 30Hz to 15KHz
- FM S/N ratio: 65dB below,  $\pm 75$ KHz deviation at 400Hz measured in the 30Hz to 20KHz band by RMS detector
- Total Harmonic Distortion: 0.1% ,typical 0,05% or less measured with a 1KHz
- Intermodulation Distortion: 0.05% or less, measured with a 1KHz

### Option for PTRLNV, PTRLNV/S3 & RXRLNV

- /02 SCA Inputs & Telemetry Connections (optional only for PTRLNV & RXRLNV)
- /03 External 24V DC Battery
- /05 Stereo Decoder (only RXRLNV with /02 option)

