

The *OmniLynx* **OT-100R**

Digital COFDM Receiver



The OmniLynx OT-100R/OT-100RC is a state-of-the-art digital terrestrial receiver with powerful single-chip processor LSI SC2005 supporting OmniCrypt CAS. Being fully compliant with MPEG-2 and DVB-T standards, the receiver is designed to receive terrestrial digital TV signals within the VHF or UHF band.

Furthermore, the receiver also supports CA, EPG and parental lock control. The user friendly OSD menu system provides easy receiver installation and channel search/edit function.

Main Features:

- Powerful single-chip LSI SC2005
- Fully DVB-T & MPEG-2 compliant
- High-sensitivity digital reception
- Bandwidth of 6MHz, 7MHz & 8MHz supported
- Offer FTA (OT-100R) & OmniCrypt 200 CA (OT-100RC)
- Mail and message broadcast supported
- Friendly user interface
- Electronic program guide (EPG) supported
- NIT search supported
- PSI/SI auto update supported
- Software upgrade via RS232 port or OTA
- Multilanguage OSD
- Program parameters memorization when power off
- Aspect ratio 4:3 and 16:9 supported
- PAL/NTSC auto conversion
- CVBS and S-Video output (all models)
- RF and SCART output supported (option)



OT-100R

Digital COFDM Receiver

Technical Specifications

TUNER

- Input frequency: 174-860 MHz
- Loop out frequency: 174-860 MHz
- Input level: -72~-20dBm@QAM64, 7/8
- -86~-20dBm@QAM16, 1/2
- -90~-20dBm@QPSK, 1/2
- Input impedance: 75 ohm

PROCESSOR AND MEMORY

- CPU: TinyRISC (SC2005)
- Processor speed: 108MHz
- Flash memory: 16Mb
- Program SDRAM: 64Mb
- Decoding SDRAM: 16Mb

CHANNEL DECODING

- Standard: DVB-TEN300 744
- Demodulation: QPSK, QAM16, QAM64, AUTO
- Code rate: 1/2, 2/3, 3/4, 5/6, 7/8, Auto
- Guard interval: 1/2, 1/8, 1/16, 1/32
- COFDM mode: 2K, 8K

VIDEO DECODING

- Standard: ISO/IEC13818-2MP@ML
- Aspect ratio: 4:3, 16:9
- Video format: PAL/NTSC AUTO
- Video resolution: 720 x 576

DEMULTIPLEXER

- Standard: ISO/IEC13818-1
- Input max. bit stream rate: 60Mbps

AUDIO DECODING

- Standard: ISO/IEC13818-3
- Decoding: MPEG-1 & MPEG-2 layerI/II
- Output mode: left, right & stereo
- Sampling frequency: 32, 44.1, 48 kHz
- Volume level: 32 levels

AV OUTPUT

- Video bandwidth: 5.5 MHz
- Video output impedance: 75 ohm
- Video output level: 1.0 Vp-p
- Audio output: mono, stereo
- Audio output frequency: 20Hz-20KHz
- Audio output impedance: low
- Audio output level: 0.6 dBu

FRONT PANEL

- Keys: up, down, left, right, menu, OK
- Smart card slots: 1 (OT-100RC)
- IR receiver: 38kHz
- LED indicators: power, locked, standby

POWER

- Input voltage: AC90-260V, 50/60 Hz, SMPS
- Power consumption: 20 W max

REAR PANEL

- RF input: F-connector
- Loop through output: F-connector
- RCA output: 6RCA (2 left audio, 2 right audio, 2 video)
- Y/C output: s-video
- RS232 serial ports: DB-9 female
- RF modulator: CH21-69, CH25 or CH3/CH4 (optional)

AMBIENT

- Operation temperature: -5°C ~ +45°C
- Size: 270 mm x 220 mm x 65 mm
- Weight: 1.8 Kg



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