

# CNX-Duo

## Features:

- Personal Video Recorder (PVR) Ready via USB 2.0
- Reserve Recording in EPG Mode
- Recorded file play on PC
- Upgrade Software & Update Channel Database through USB 2.0 Port and RS232
- Two USB 2.0 Host for USB Storage Devices (e.g. External HDD, USB Memory, etc)
- MP3/JPEG File Store and Play via USB 2.0
- Vacuum Fluorescent Display (VFD) Type of Front Panel Display
- MPEG-II Digital & Fully DVB Compliant.
- C/KU band control for each antenna
- LNB Tone Switch 22KHz mode on/off
- Multi-LNB controlled by DiSEqC 1.0, 1.2 and USALS
- Total 5,000 Channels Programmable
- Blind Scan
- Closed Caption Support
- Parental Lock
- PAL/NTSC automatic conversion
- Picture In Graphic (PIG)
- Teletext and subtitle directly from the On-screen Display (OSD)
- Electronic Program Guide (EPG) for On Screen Channel Information
- Zoom Function by 2x.....4x
- Game function with Stereo Sound
- Dolby Digital Bitstream Out through S/PDIF
- CVBS Video & Audio Output via RCA
- Component Y/Pb/Pr Output via RCA
- S-Video Output
- Universal Remote Control
- Multi-language supported for Menu and OSD
- Built-in Smart Card Reader

## Specifications:

### Conditional Access Interface

- SMART CARD                      1 Slot: ISO 7816, GSM11.11 and EMV (payment systems) compatibility

### Tuner & Channel

- Type                                      1 × F Type, IEC169-24, Female
- Frequency Range                      950MHz to 2150MHz
- RF Impedance                          75 Ohm unbalanced
- Signal Level                            -65 to -25 dBm
- LNB Power                              13.5/18.5Vdc +/- 5%, 0.5Amax, Overload Protected
- 22KHz Tone                            Frequency : 22KHz +/- 2KHz, 0.6Vpp +/- 0.2V
- DiSEqC Control                        Version 1.0, 1.2, Tone burst A/B
- Demodulation                          QPSK
- Input Symbol Rate                    2~45 Ms/s, SCPC/MCPC
- FEC Decoder                            Convolution Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8  
With Constraint Length K = 7

## System & Memory

- Main Processor 32-bit ARM946 RISC Processor
- Flash Memory 4 Mbytes
- System Memory 32 Mbytes
- Channel Capacity Digital Channel: 5,000
- Front VFD Display (3 Icon, 5 digit Alphanumeric)

## MPEG Transport Stream & A/V Decoding

- Transport Stream MPEG-2 ISO/IEC 13818 Transport Stream Specification
- Profile Level MPEG-2 [MP@ML](#)
- Input Rate Max. 90Mbit/s
- Aspect Ratio 4:3, 16:9, Letter Box
- Frame Rate 25Hz for PAL, 30Hz for NTSC
- Video Resolution 720x576(PAL), 720x480(NTSC)
- Teletext Through VBI
- Audio Decoding MPEG/MusiCam Layer I & II
- Audio Mode Single Channel/Dual Channel Joint Stereo/Stereo
- Frequency Response 20~20kHz, <+/-2dB  
60Hz ~ 18kHz <+/- 0.5dB
- Sampling Rate 32, 44.1, 48KHz

## A/V & Data In/Out

- RCA Output CVBS, L, R Output(Yellow, White, Red Jack) with Volume Control  
Component Video(YPbPr) Out
- S-VHS Output 4 Pin Mini
- SPDIF Dolby Digital Bitstream Out(Coaxial, Optical)
- Data Interface
  - RS-232, Bit Rate: 115,200baud
  - Connector: 9-pin D-sub Male type
  - USB : USB 2.0, Type A Connector, 2Port

## RF Modulator

- RF-Connector 75 ohm F-Type
- Frequency Range VHF CH3, CH4
- TV Standard NTSC
- Audio Output Mono with Volume Control

## Power Supply

- Input Voltage AC 90V ~ 250V, 50Hz ~ 60Hz
- Power Consumption Max 45W
- Standby Power Consumption <= 10W
- Protection Separate Internal Fuse

## Physical Specification

- Size(WxHxD) 290mm x 50mm x220mm
- Weight 2.5 KG

## Environmental Condition

- Operating Temperature 0 °C ~ 40 °C
- Storage Temperature -10 °C ~ 50 °C
- Operating Humidity Range 10~85% RH, Non-condensing
- Storage Humidity Range 5~90% RH, Non-condensing

