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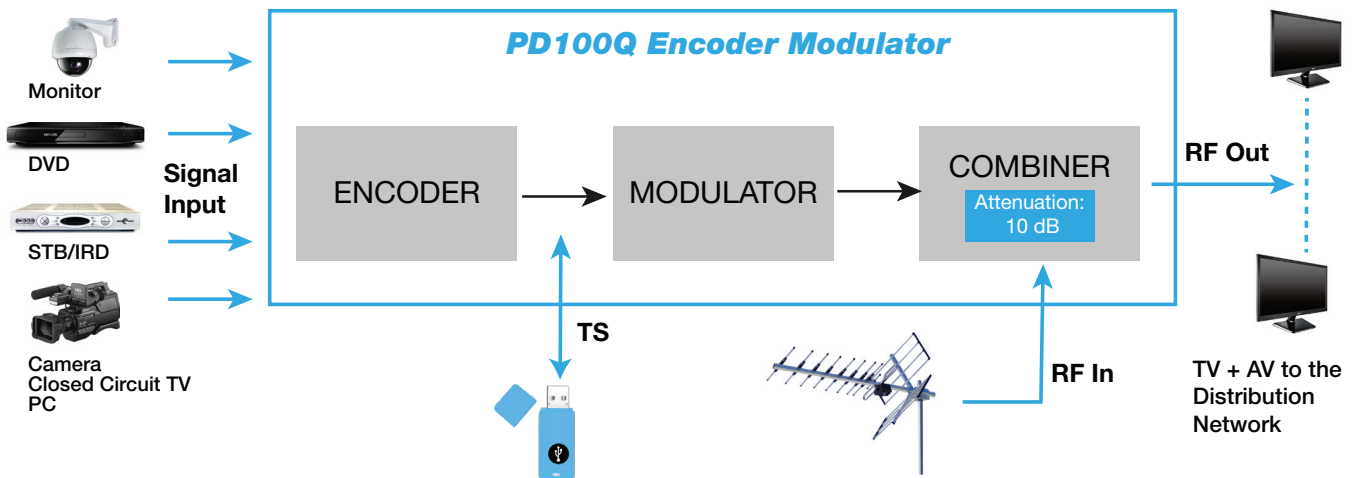
Description

The PD100Q single channel HD encoder modulator is an-in-one device integrating MPEG-2 HD/SD and MPEG-4 AVC H.264 HD/SD encoding and modulation to convert video/audio signals to a digital RF output in the frequency range 30 MHz to 960 MHz. Signal sources may include satellite receivers, closed-circuit television cameras, Blu-ray players, and antennas, among others. The PD100Q output may be received by TVs or set-top boxes.

Features

- HDMI/YPbPr/AV inputs for encoding
- MPEG-2 and MPEG-4 AVC/H264 HD/SD video encoding
- MPEG-1 Layer II, MPEG-2-AAC, and MPEG-4-AAC audio encoding, DD AC3 (2.0)
- CC (Closed Caption) CVBS only
- AC3 passthrough
- Records encoded TS and playback TS files (*.ts) through USB port
- QAM/DVB-C, RF output
- Enhanced USB function for greater stability and compatibility with hard disks and USB keys from various suppliers
- USB device error self-detection and removal, ensures USB device runs without interruption
- Volume adjustable
- Easy operation with LCD + control buttons, and Web server management

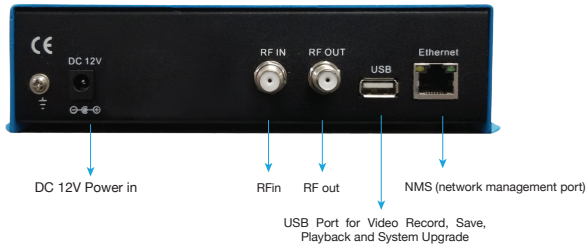
System Diagram



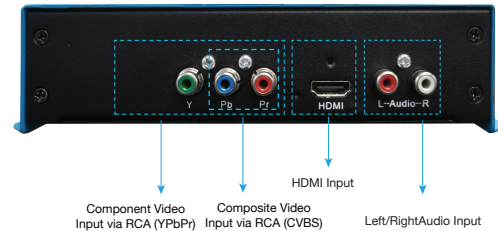
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Front Panel



Rear Panel



Specification

HDMI Video

Encoding	MPEG-2, MPEG-4 AVC/H.264
Interface	HDMI*1
Resolution	1920*1080_60P, 1920*1080_50P (for MPEG-4 AVC/H.264 only); 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P
Bit Rate	1 ~ 19 Mbps

HDMI Audio

Encoding	MPEG-1 Layer II, MPEG-2-AAC, MPEG-4-AAC, Dolby AC3 (optional) AC3 passthrough
Interface	HDMI
Sample Rate	48 kHz
Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps

YPbPr/CVBS Video

Encoding	MPEG-2, MPEG-4 AVC/H.264
Interface	CVBS *1, YPbPr*1 (RCA)
Resolution	CVBS: 720x576_50i (PAL); 720x480_60i (NTSC) YPbPr: 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P
Bit Rate	1 ~ 19 Mbps

YPbPr/CVBS Audio

Encoding	MPEG-1 Layer II, MPEG-2-AAC, MPEG-4-AAC, Dolby AC3 AC3 passthrough
Interface	1 stereo / 2 mono
Sample Rate	48 kHz
Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps

QAM/DVB-C Modulator Section

Standard	J.83A (DVB-C)	J.83B	J.83C
Constellation	16/32/64/128 /256 QAM	64/ 256 QAM	64/ 256 QAM
Bandwidth	8M	6M	6M
MER	≥ 43 dB		
RF Frequency	35 ~ 960 MHz, 1 kHz step		
RF Output Level	32 ~ 12 dBmV, 0.1dB step		
Symbol Rate	5000 - 9000 Ksps		

System

Management	Local control: LCD + control buttons
Language	English
LCN Insertion	Yes

General

Power Supply	+ 12 VDC
Dimensions	8" (L) x 10" (D) x 1.75" (H)
Weight	2 lb
Operating Temperature	0 ~ 45°C

Ordering Information

PD100Q Single Channel HD Encoder Modulator