

Caster-T312Plus

DIBSYS

Portable H.265/H.264 HD Encoder with 3G/4G/WIFI



Caster-T312Plus, the new generation of mobile live broadcasting product, which brings the revolutionary development for live broadcasting, mobile news interview and video transmission technology.

Also it adopts embedded operating system, guarantee the stability of the work, support selectable SDI/HDMI inputs adaptive, provides a high Performance-to-price ratio for live, easy operate solution. It can push/pull H.265, H.264, MPEG-4, MPEG-2 encoding video streams deliver to various servers, which base on UDP/RTSP/RTMP/HTTP/RTP/HLS protocols.

Caster-T312Plus, compact and portable high quality device, which is using different carrier's multi-card bundling technology and H.264/H.265 encoding, within the low latency of 1 second for end to end. Easy operation, even non-professionals can send high-definition live video or recording with broadcast quality through the bound cellular network (3G/4G-LTE), Wifi and Ethernet.

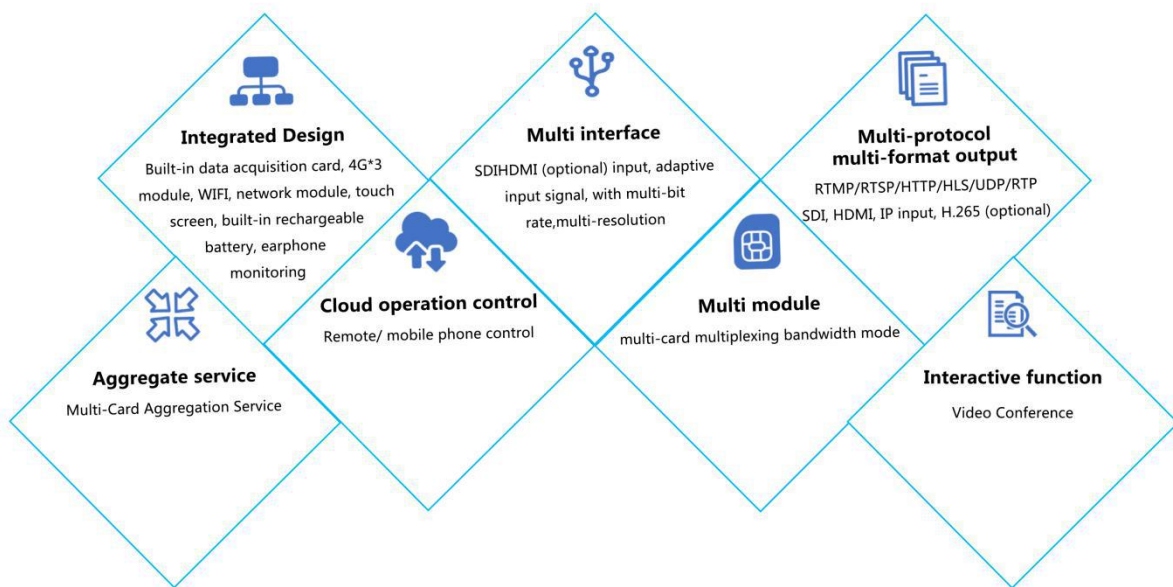
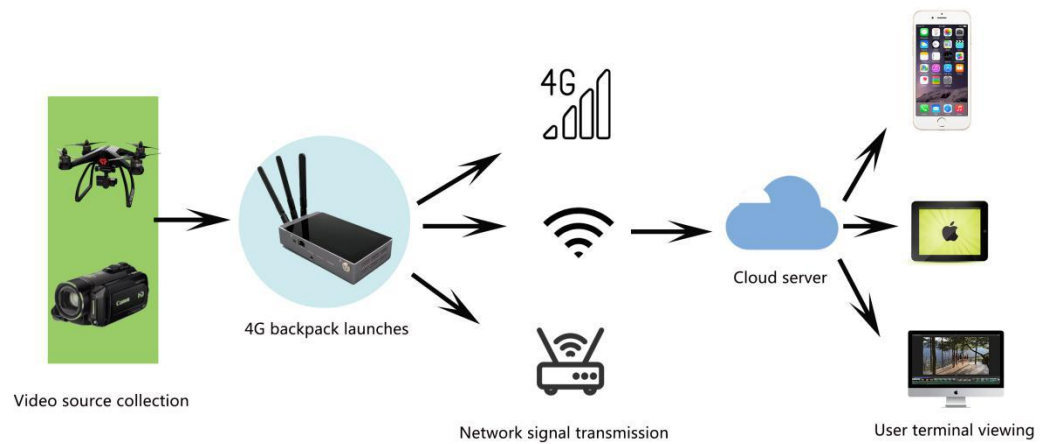
It has colored appearance, LCD touch screen, making the small box cool enough besides its power performance.

Key Features

- Single channel HDMI or HD-SDI input
- Multiple output streams per input service to support Broadcast, VOD, IPTV and OTT, mobile/ web applications
- HD HEVC/H.265, MPEG4/H.264 to any resolution encoding
- Creates simultaneous High, Medium, and Low bitrate streams (profiles)
- Multiple Codec, Protocol, Bitrate, Resolution, Profile per channel
- GbE IP outputs – UDP, RTSP, RTMP, HTTP, HTTP Live Smooth(HLS), FTP M3u8 playlist files
- Audio support: LC-AAC
- Produce pristine video quality over the lowest bitrates
- High quality pre-processing including filtering, Deinterlacing, cross scaling, image insertion
- Selectable any resolution from QSIF to 1080P
- Real time and lower delay IP network video transmission
- Supporting Automatic Detection of Scene Switching
- support multiscreen output function, and a variety of terminals (iPhone, iPad, Android etc.)
- Designed for 24*7*365 uninterrupted working
- Easy-to-Use System Management via web

Main Application

- Digital broadcast and Multi-screen headend
- digital signage HD streaming server
- video conferencing system
- Mobile, Broadcast, Internet TV/Web TV
- Global eyes IP video camera transcoding



TECHNICAL SPECIFICATIONS

Input

Baseband input
1x HDMI
1x HD-SDI optional

Output

IP Output type
Streaming format
One Gig Ethernet Port
MPEG-2/H.264/H.265/H.263/MPEG4
SP/MPEG4, ASP; AAC-LC, TS Over
UDP/RTP/HTTP
3GP Over RTP FLV Over HTTP/RTMP
HTTP Live streaming Apple HLS (m3u8)

File Output

Encoding
3GPP/3GPP2/WMV/FLV/TS
File output support timing and
capacitive record

Pre-processing

Image setting
Video adjustments (Brightness,
contrast, Saturation, Hue)
from 2fps to 30fps
4:3 and 16:9, 1:1, auto
Static or roll subtitle, up to 3 way
(optional)
Depending on the configuration, it
forwards selected programs
information are transmitted.

Video encoding

Bitrate mode
Resolutions
VBR, CBR, ABR
80x64, 176x120, 128x96 (4:3), 176x128,
144x80, 176x144, 144x140, 220x176,
160x90 (16:9), 240x176, 320x240, 352x288,
400x300, 480x360, 720x576, 854x480(16:9),
1280x720p, 1920x1080p
Video codec
Up to multiple concurrent (1xFull HD,
1xHD, 1xSD) outputs per one stream input
HEVC High Profile;
HEVC Main profile
H.263 Profile0, Levels 10, 20, 30
MPEG-4 SP, Levels 0, 0b, 1, 2, 3
H.264 Baseline Levels 1, 1b, 2, 3
H.264 Main Profile/High Profile 3.0- 5.1
MPEG-2 MP@ML 4:2:0
Adjustable
GOP Size
Video Bitrate
Enhancement filter
100kbps to 20Mbps
Deinterlacing; MABFF CABAC; Noise reduction;
Sharpening; Visual Optimizing

Audio encoding

Audio encoding
Sample rate
Data rate
LC-AAC, Mono, Dual, Stereo
8KHZ~48KHZ Adjustable
8kbps~448kbps Adjustable
Self-Gain Processing

Interface

USB2.0*2, USB3.0, 3.5mm Audio

Network

WIFI

3 built-in 3G/LTE/LTE-Advanced modules
 Built-in WIFI and Gigabit Network Port
 IEEE 802.11 b/g/n client
 Embedded high-performance 32-bit
 RISC microprocessor
 Highly with integrated RE with 55nm
 CMOS technology
 1T1R mode with support of 150Mbps PHY
 rate
 Integrated high efficiency switching Regulator
 Best-in-class power consumption
 performance
 Compact 5mm x 5mm QFN40L package
 1/2/3/4- wire PTA WIFI/Bluetooth coexistence
 Support 802.11 d/h/k compliant
 Security support for WFA WPA/WPA2
 personal,
 WPS2.0 WAPI
 Support 802.11w protected managed Frames
 Qos support of WFA WMM, WMM PS
 Support WIFI Direct
 Fully compliance with USB v2.0 High-speed
 mode
 Per packet transmit power control

Management

Antenna diversity
 Auto-calibration

5.5 inch capacitive touch screen
 WEB management

Environment

Power Supply +12 VAC
 Battery about 5 hours
 Operation temperature 0 ~ 50°C
 Storage temperature -30 ~ 50°C
 Power Consumption 25W
 Dimensions 150x94x34mm
 Weight 580g

Ordering Information

Input
 SDI only
 HDMI only
 SDI/HDMI switch