Nano DVR™ Mini

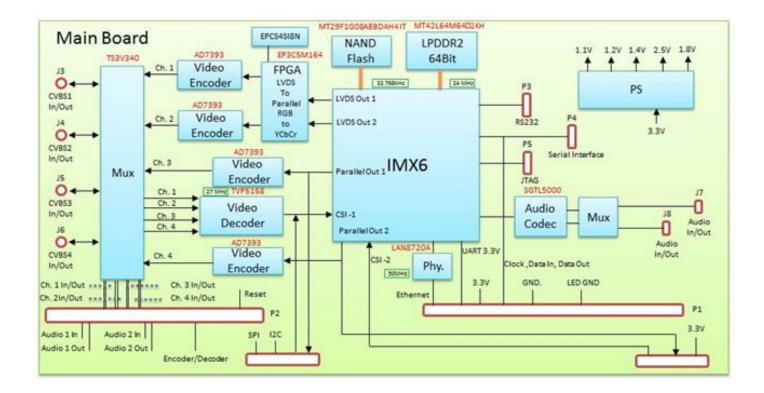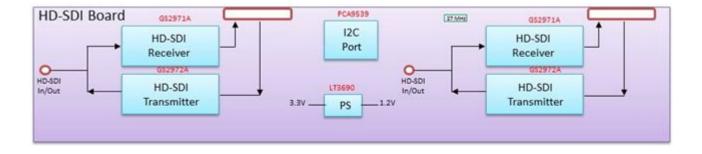*Dual channel HD or Quad channel video recording and streaming platform*

Functionality:

Acts as an Encoder or Decoder using the same interface connectors.
Handles multiple video channels and simultaneously support:

❑ Video and audio capture, encoding, decoding, transcoding and display

❑ Video pre-processing, stabilizer (option), scaler, graphics overlay, picture-in-picture

❑ Telemetry data capture

❑ Stream generation and extraction

❑ Video, audio and data recording and playback

❑ Streaming over narrowband and broadband networks

❑ End-to-end low-latency streaming

❑ Real-time advanced video analytics engine (option)

❑ Windows, Android and iOS web-browser based control application over networks

❑ PC based low-latency players

Block Diagram:

Features:

Processor
Freescale i.MX6 SOC
4 x Cortex-A9 @800 MHz
NEON SIMD Coprocessor
Memory
Up to 4GB MB LPDD2
Up to 8Gb NAND Flash
Video In
4 x CVBS
2 x Parallel ports for add-on video receiver modile, each:
CMOS
HD-SDI
LVDS
HDMI
Camera Link
Display
2 x CVBS
2 x Parallel ports for add-on video ransmitter modile, each:
HD-SDI
LVDS
Camera Link
Audio In
Stereo Line-in
Microphone
Audio Out
Stereo Line-out
Stereo Speakers

H.264 Codec
Encoding Resolutions
4 x D1
2 x 720p30
1 x 720p60
1 x 1080p30
2 x 1080p15
Up to 36Mbps bit-rate
Decoding Resolutions
4 x D1
2 x 720p60
1 x 1080p60
2 x 1080p30
Network
Ethernet 10/100/1000
Storage Media
SD card (SDIO)
NAND Flash 2Gbit
Serial interfaces
RS232
Data/CLK
GPIO
8 x GPIO
Dimensions
80x50 mm
Operating Temperature
-40C to +85C
Power
3.3V DC