SmartStream target performance specs

Potential Usage

SmartStream Studio Deck
- Record & Playback Master Deck for any resolution and frame rate format
- Create all deliverables from a single piece of hardware
- Live Multi-Camera capture with live Gigabit Ethernet streaming to post

Digital Cinema
- Feed projectors & monitors of any resolution & frame rate
  - 4K up to 60p
  - 2x 4K/30p or 2x 2K/60p for 3D stereo projection
  - Load content locally onto SSD for screening room facility
- Load content via Gigabit Ethernet for mass distribution with encryption protection

Digital Signage
- Feed monitor/projector 4K up to 60p
- Feed 2x 4K/30p streams simultaneously
- Feed 4x 2K/60p streams simultaneously for video walls
- Gang multiple units for large video wall installations
- Stream all outputs simultaneously for video walls
- Stream all outputs independently with local start/stop control for multiple interactive displays

Special Venue
- Trade Show: multiple interactive displays with live feedback via Gigabit Ethernet
- Concert: large video walls which break into individual screens of content
- Theme Park: Rides or interactive information signage in wait lines
- Installation: Museum, Planetarium, Education/Information Center
- Point-of-Sale Kiosks: Interactive video wall multi-panel solution
- Producers & DPs: Portable player of any resolution & frame rate for client presentations

JETSON TX1 MODULE
- NVIDIA Maxwell™ GPU with 256 NVIDIA® CUDA® Cores
- Quad-core ARM® Cortex®-A57 MPCore Processor
- 4 GB LPDDR4 Memory
- 16 GB eMMC 5.1 Flash Storage
- 10/100/1000BASE-T Ethernet

**Record/Playback Capability:**

- One stream of 4K/QHD up to 60p, two streams up to 30p
- Two streams of 2K/HD 4:4:4 RGB 12-bit up to 60p, four streams up to 30p
- Four streams of HD 4:2:2 up to 30p
- Simultaneously stream online/offline video to post or Cloud via Gig-E
- Record 4K/30p or four streams of HD/30p and simultaneously stream proxy versions via Gig-E

**Connectivity** (tentative specs)(to be partitioned into **base and optional configurations**):

- Four 6G-SDI outputs, Four 6G-SDI inputs
- Two Display Port 1.2a outputs (4K/60p) with DP/HDMI dual mode
- Two HDMI 2.0 outputs (4K/60p) via DP/HDMI cable
- Four channels of AES audio out via two HD-BNCs
- 64 channels of MADI audio I/O via two HD-BNCs
- Gigabit Ethernet for streaming files to Ethernet/Internet
- Two Camera inputs for image sensing, four mic inputs for audio sensing
- Thunderbolt 2.0 ports
- USB 3.0 Type A
- USB 2.0 Micro AB
- M.2 Key E
- PCI-E x4
- SATA Data and Power
- GPIOs, I2C, I2S, SPI
- Camera Expansion Header