

speedcast

MEDIA NETWORK

Nebula Low Latency 4:2:2
integrated encoding – decoding engine

In Aria! H.264 4:2:2 Low Latency Encoding for Contribution engine 8 bits (SDI encoding / SDI decoding)

ENCODING

- MPEG-4/AVC High/High422 (8-bit) up to 50Mbps
- Low latency - 120-150ms encode latency
- CBR and Constrained VBR Input
- 9 Frames ent to end encoding – decoding in low latency mode

INPUT

- SDI with format detection
- Uncompressed IP (SMPTE 2022-6/7 and SMPTE 2110)
- Bars and tone with editable text on signal-loss

VIDEO

- 1080i @ 25, 29.97Hz. 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz. 720p @ 50Hz, 59.94Hz, 60Hz. 576i @ 25Hz (PAL). 480i @ 29.97Hz (NTSC)

AUDIO

- (up to 8 stereo pairs)
- MPEG-1 Layer II audio (MUSICAM)
- AAC-LC (HE-AAC is too high latency)
- SMPTE 302M

ANCILLARY DATA

- CEA-608/CEA-708 captioning

MULTIPLEXING

- MPEG Transport Stream with full T-STD compliance

OUTPUT

- UDP/RTP over IPv4 or IPv6 (multicast and unicast)
- Ottvideo V.8 / V.9 protocol

DECODING

- MPEG-4/AVC High/High422 up to Level 4.2 (8-bit)

INPUT

- UDP/RTP
- SMPTE 2022-1 FEC

AUDIO

- (up to 8 stereo pairs)
- MPEG-1 Layer II
- AAC-LC
- SMPTE 302M

ANCILLARY DATA

- CEA-608/CEA-708 closed captioning

OUTPUT

- HD-SDI
- Uncompressed IP (SMPTE 2022-6/7 and SMPTE 2110)

MANAGEMENT

- Web interface
- SNMP management with provided MIB
- Front panel (appliances only)

OTHER

- Fully Integrated with OttvideoOS V.8 / V.9 secure transport protocol and CDN

In Aria! H.264 4:2:2 Low Latency Encoding for Premium Contribution engine 10 bits (SDI encoding / SDI decoding)

ENCODING

- MPEG-4/AVC High/High422 Intra up to Level 4.1 (10-bit) up to 150Mbps
- VC-2 HQ encode up to 300Mbps • Low latency - 120-150ms encode

latency

- 9 Frames ent to end encoding – decoding in low latency mode

INPUT

- SDI with format detection
- Uncompressed IP (SMPTE 2022-6/7 and 2110)
- Bars and tone with editable text on signal-loss

VIDEO

- 1080i @ 25, 29.97Hz. 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz. 720p @ 50Hz, 59.94Hz, 60Hz. 576i @ 25Hz (PAL). 480i @ 29.97Hz (NTSC)

AUDIO

- (up to 8 stereo pairs)
- MPEG-1 Layer II audio (MUSICAM)
- AAC-LC (HE-AAC is too high latency)
- SMPTE 302M
- Opus

ANCILLARY DATA

- CEA-608/CEA-708 captioning
- Teletext (VBI/OP-47/SMPTE-2031)

MULTIPLEXING

- MPEG Transport Stream with full T-STD compliance

OUTPUT

- UDP/RTP over IPv4 or IPv6 (multicast and unicast)
- Ottvideo V.8 / V.9 protocol

DECODING

- MPEG-4/AVC High/High422 up to Level 4.2 (10-bit)

INPUT

- UDP/RTP
- SMPTE 2022-1 FEC

AUDIO

- (up to 8 stereo pairs)
- MPEG-1 Layer II
- AAC-LC
- AC-3 Passthrough
- SMPTE 302M (including data realignment)

ANCILLARY DATA

- CEA-608/CEA-708 captioning
- Teletext (VBI/OP-47)

OUTPUT

- SDI output
- Uncompressed IP output (SMPTE 2022-6/7 and 2110)

MANAGEMENT

- Web interface
- SNMP management with provided MIB • Front panel (appliances only)

OTHER

- Fully Integrated with OttvideoOS V.8 / V.9 secure transport protocol and CDN

