OPEN
BROADCAST SYSTEMS

C200 - CONTRIBUTION APP

Example C-200 platform chassis

Premium contribution app

The OBE C-200 app allows premium contribution over IP networks over a wide range of bitrates (1-300Mbps) with support for 10-bit 4:2:2 encoding whilst remaining cost-effective, standards compliant and having an ultra-low latency.

Encoding a wide range of contribution services globally, OBE is proven to deliver high quality and low-latency. It is powered by the award-winning x264 encoder with a significantly lower overall cost compared to competitors. The C-200 incorporates uncompressed-over-IP inputs/outputs making it a future-proof encoding/decoding platform.

Available as pure software for IT-centric deployments or as appliances for more traditional setups. There are no restrictions on the encoder chassis, allowing customers to decide on encoder density and power usage. Multiple feeds can be encoded on a single server, including blade servers, allowing for very high-density encoding. Based on minimum CPU requirements, servers can be bought from existing suppliers or purchased from OBE recommended suppliers.

A modern web interface allowing easy management of the encoder whilst at the same providing SNMP access for integration with existing network management systems.

Integration and support services make sure customers can maximise the benefits of the C-200 platform and deliver the best service to end-users.

P +44 (0) 20 3051 1695
E contact@obe.tv
W www.obe.tv

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TECHNICAL SPECIFICATIONS

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

INPUT

- SDI with format detection
- Uncompressed IP (SMPTE 2022-6 and TR-03)
- Bars and tone with editable text on signal-loss

VIDEO

- 1080i @ 25, 29.97Hz , 720p @ 50Hz, 59.94Hz, 576i @ 25Hz (PAL), 480i @ 29.97Hz (NTSC)

AUDIO

- Embedded 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)
- SMPTE 2022 FEC
- ARQ
- DVB-ASI (on request)

DECODING

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

INPUT

- SMPTE 2022-1 FEC
- ARQ

AUDIO

- MPEG-1 Layer II
- Opus
- 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 and TR-03)

MANAGEMENT

- Modern, easy to use web interface
- SNMP management with provided MIB
- Front panel (appliances only)

OTHER

- Zixi integration
- VideoFlow integration

opus

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