Our LPTVBA-02 encoder has been designed specifically for the Low Power TV broadcaster so they can optimize the ATSC bandwidth of 19.4 Mbit’s with up to 8 Programs in MPEG 2.

The encoder uses ATSC tables and has an ASI multiplexed output so it can easily connect to the 8VSB LPTV Transmitter. The chassis features dual Power supplies for redundancy and is modular in design. The chassis has four RJ-45 Ethernet ports with two for management and two for content if needed. We have one dual input SDI encoder module with an encode rate from 1 to 18 Mbit’s in MPEG 2 or H.264, up to 3 additional SDI modules can be added. An onboard EAS module supports Digital EAS Triggering via the SCTE-18 protocol or by a standard contact closure. The ASI module has 5 ASI ports (BNC) with two for Output and three for input if needed. This all in a 1 RU (1.75”) chassis.

Features:
- 1 RU Chassis
- 2 SDI Inputs
- 2 ASI Outputs
- Dual Power Supplies
- ATSC Tables
- SD or HD content
- Separate control of each SDI input
- Specifically configured for LPTV stations
- MPEG2 or H.264
- 2 Audio pairs per SDI
- RJ45 jacks for remote control or IP output
- 1 to 18 Mbit’s encode rate
- EAS enabled
- 3 Open Card Slots

Dual SDI Encoder Module
Model OHE6-SDI-01
One additional SDI module (2 channel input per card) is needed to increase channels up to 8 (3 additional cards maximum)

LPTV Broadcasters Association Contact: 866-759-8750
## SPECIFICATIONS

### Chassis
- 1 RU with 6 slots for hot-swappable modules
- Dual redundant power supplies
- Service-level multiplexing
- 4 x Gigabit RJ45 (embedded):
  - MPEG TS over UDP/RTP multicast/unicast SPTS/MPTS
  - Max. 120 inputs and 120 outputs

### SDI
- **Input**: 2 channels via 2 SDI SDI via BNC connector
- **Video**: H.264/AVC HD: MP/HP@L4.0, SD: MP/HP@L3.0
  - MPEG-2 SD: MP @ML HD: MP @HL
- **Resolution**:
  - SD: 576i50, 480i59.94
  - HD: 1080p-25/30/50/59.94/60, 1080i-50/60
  - 720p-50/60
  - *The maximum output resolution is 1080i60.*
- **Bitrate Control**: CBR
- **Bitrate**: 1,000–18,000 Kbps
- **GOP Structure**: IBBP, IPPP, IBP
- **GOP Size**: 6–63
- **Audio**: MPEG-1 Layer II, AC3, AAC
- **Audio Mode**: Stereo (2.0, including downmix)
- **Sampling Rate**: 48 kHz
- **Power Consumption**: Max. 16 W

### EAS
- **Input**: Digital EAS input (SCTE-18) via 1 x RJ45 port
  - Analogue EAS input via 3PIN contact closure
  - CVBS input via 1 x RCA connector
  - Audio L/R input via 2 x RCA connector
  - TS input via 1 x BNC connector
- **Video**: H.264 SD: MP/HP@L3.0
  - MPEG-2 SD: MP @ML (By default)
- **Resolution**: SD: 480i59.94
- **ASI**: 500 Kbps to 100 Mbps
- **Contact Closure**: 3PIN Connector with Dry Contact or 5–24 V DC input for EAS trigger
- **RJ45**: 10/100 M Ethernet for SCTE-18 digital EAS input
- **Bitrate Control**: CBR
- **Bitrate**: 5,000–8,000 Kbps
- **GOP Structure**: IBBP, IPPP, IBP
- **GOP Size**: 6–63
- **Audio**: MPEG-1 Layer II, AC3, AAC
- **Audio Mode**: Stereo (2.0, including downmix)
- **Sampling Rate**: 48kHz
- **Power Consumption**: Max. 5.5 W

### ASI
- **Connector**: 5*ASI port, BNC female
- **Bitrate**: 500 Kbps to 150 Mbps
- **Reception mode**: Byte mode (Continuous mode)
  - Packet mode (Burst mode)
- **Transmission mode**: Byte mode (Continuous mode)
- **Packet Length**: 188 Bytes or 204 Bytes
- **Working mode**: 3 ASI input ports, 2 ASI output ports by default, each port can be redefined as ASI input or ASI output port
- **Multiplexing**: Support PSI/SI or PSIP table regeneration
  - External PID filtering
- **Tables**: CVCT or TVCT

Specifications Subject To Change Without Notice
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