

Telairity Product Line

Telairity encoders easily interconvert between codecs by means of a simple software upgrade. Currently, three compression standards are available: MPEG-2 (SD), H.264/AVC or AVS (HD & SD).

5000 Series Integrated Receiver Decoders (IRDs)

1RU chassis, MPEG-2 and H.264 video decoding in either HD or SD formats

Great price/performance in a full-featured IRD

- **BE5502**—An affordable, full-featured professional 4:2:0 IRD
- **BE5503**—Adds Genlock capability to the 5502 for accurate frame and color synchronization
- **BE5504**—A 4:2:2 modular IRD with enhanced multi-format router capabilities

6000 Series Mobile Encoders

Single-channel 1RU chassis, 128-2000Kbps output bit range

Cost-effective encoder for Mobile and WebTV applications

- **BE6110**—Compression for small-format screens in a single-channel 1RU
- **BE6200 or BE6400**—2 or 4 6000-series channels in a cost-effective multi-channel 1RU

7000 Series SD Encoders

Single- and multi-channel 1RU chassis, 2-8Mbps output bit range

Our most economical encoders, featuring adjustable encode latencies from 150-2000ms

- **BE7110**—Standard SD compression in a single-channel 1RU
- **BE7200 or BE7400**—2 or 4 7000-series channels in a cost-effective multichannel 1RU

8000 Series HD Encoders

Single- and multi-channel 1RU chassis, 2-25Mbps output bit range

Hardware configuration varies as required by target application. Two specialized single-channel models designed for ENG field use, featuring simple and reliable “two-button” front panel operation, wide temperature tolerance, and vibration-proof construction

- **BE8110**—Broadcast Encoder model with both dual redundant power supplies and external audio inputs (AES and analog stereo) included as standard features
- **BE8110-T**—ENG “truck” encoder with wide temperature tolerance, vibration-resistant construction
- **BC8110**—ENG “copter” encoder for aerial vehicles (fixed-wing or helicopter). Half-width (9.5”) unit, remote control panel, 28V power supply, ruggedized chassis
- **BE8200**—Dual-channel model: two fully independent BE8110 units packaged together for cost savings in a longer 1RU chassis (28” vs. 18”)
- **BE8500**—Autoswitching “universal” encoder, melding an 8000-series HD with a 9000-series high-compression SD/Mobile encoder with MPEG-2 SD and H.264 4:2:0/4:2:2 HD & SD capability

9000 Series SD/Mobile Encoders

Single- and multi-channel 1RU chassis, 100Kbps-5Mbps output bit range for SD/Mobile

Twice the compression horsepower of Series 7000 encoders for ultra-low SD bit-rates. The flexible multi-channel BE9300 offers choice of SDI or analog inputs, ASI or IP outputs, HD & SD encoding channels

- **BE9110**—Maximum compression for ultra-low SD/Mobile bitrates in a single-channel 1 RU package
- **BE9200 or BE9400**—2 or 4 9000-series SD/Mobile channels with input/output per channel pair
- **BE9300**—2 9000-series SD/Mobile channels with 1 8000-series HD channel.

SES3200 Scalable Encoder System

A complete “head-end in a box” solution offering the ultimate in density, with up to 32 channels of Mobile/SD video

Built on the industry-standard 12U 14-slot ATCA chassis, the SES3200 combines complete I/O flexibility with complete encoding flexibility. Dynamic software control allows any input to be routed to any encoder channel, and encoding modules to be redefined as HD, SD, or mobile to accommodate shifting demands. Full fabric backplane eliminates the need for cabling, as well as any need for external routers, switches, or multiplexers. The non-stop architecture includes flexible backup schemes from N+1 to full dual redundancy, as well as hot-swap capability on all cards, providing reliable 24 x 7 x 365 throughput.

Encoder Options (all 1RU models)

- **Composite Input**—Add composite input to SD-SDI input capability for SD channels
- **Transcoder**—Dynamically convert encoded input over ASI, IP, or SDI to H.264 or AVC output
- **G.903/E3**—Add BNC connector for G.703/E3 output to ASI and IP output capability of unit

Standard Features of Encoders

- **All Models**
 - H.264/AVC or AVS video encoding
 - MPEG-1 Layer 2, or AAC-LC / AAC-HE / AAC-HEv2 audio encoding
 - Automatic detection of input formats
 - “Instant” on, restart
 - Dual ASI and IP outputs
 - Forward error correction, Type Of Service (TOS) on IP output
 - Adjustable preprocessing (noise) and deblocking filters
 - Slice-based architecture for transmission robustness, fast signal lock
 - Stutter-free video on asynchronously switched inputs
 - Web browser control
 - Full upgradeability via software download
 - Compact 1U rack-mountable chassis
 - Highly reliable Telairity technology
 - Unconditional one-year Telairity warranty
- **Bxx110 Models**
 - Simple, profile-based “two button” front-panel control
- **-T/BC Models**
 - Very wide temperature tolerance
 - Ruggedized to withstand stresses of field use in trucks and aircraft
- **BE Models**
 - Dual redundant power supplies
- **BC Models**
 - Half-rack width
 - Remote control panel (tethered)
 - 28V power supply
 - Ruggedized chassis
- **Series 8000 and 7000**
 - Adjustable low encode latency from 150ms to 2 seconds
- **Series 9000 and 7000**
 - Selectable GOP Pattern
 - CIF format
- **Series 9000**
 - Reduced frame rates (one-third, one-half, two-thirds input fps)
 - Baseline profile for mobile applications
 - MPEG-2 encoding option