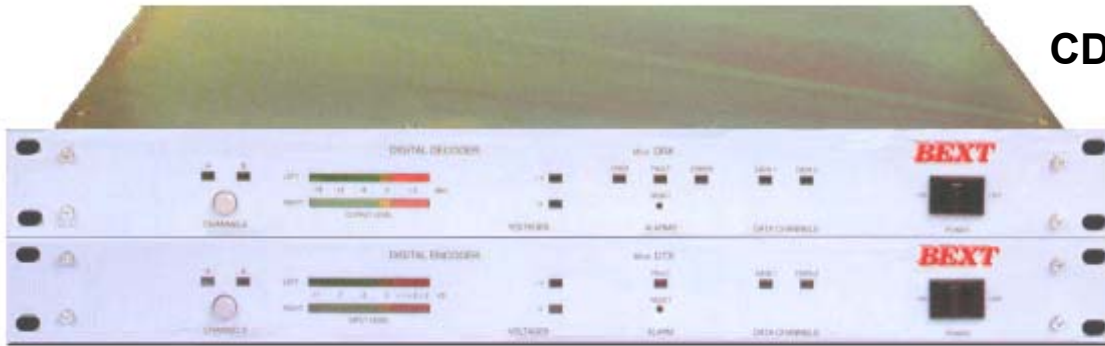


**BEXT**  
**CDXE & CDXD**  
 Digital  
 Encoders /  
 Decoders



- New generation, totally transparent Digital Encoders / Decoders for STLs
- 2 audio channels (CDXE2 & CDXD2) or 4 audio channels (CDXE4 & CDXD4), 20 Hz to 15 kHz each
- One Auxiliary Data Channel (2 channel models) / Two Auxiliary Data Channels (4 channel models)
- Highest digital audio quality is preserved even through multiple hops
- Very high immunity to noise compared to an analog link
- Very high immunity to interference of adjacent channels
- Automatic muting in case of sync loss
- Audio levels readings on LED bars and Status Indicators on front panel
- Dual independent coded signal outputs on Encoder
- Additional output on Decoder with a regenerated digital signal for multiple hops without degradation

**Model Designation:**

**CDXE2: 2 Channel Encoder • CDXD2: 2 Channel Decoder • CDXE4: 4 Channel Encoder • CDXD4: 4 Channel Decoder**

**General System Specifications:**

Audio performance	20 Hz - 15 kHz audio, 2 or 4 channels
System total delay	not exceeding 4 microseconds
Audio coding method	Sub-band Adaptive Differential Pulse Code Modulation
Channel Coding	3 Levels Shaped Pulse Amplitude Modulation
Sampling Frequency	32 kHz
Dynamic Range	> 90 dB
Total Harmonic Distortion	0.05% at 1 kHz
Signal to Noise Ratio	80 dB

**CDXE Encoders:**

Analog audio input connectors	XLR female, 600 ohm balanced or unbalanced (switchable)
Analog audio input level	-10 dBu to +10 dBu, adjustable
Digitally coded output connector	BNC, unbalanced
Digitally coded output signal level	2.2 V p-p
Bit Rate	256 Kbit/s (2 channel models) / 512 Kbit/s (4 channel models)
Data Port	2,400 baud, RS 232, DB 9 female
Indicators	Analog audio levels, Voltages, Fault, Data
Power requirements	100 / 120 / 220 / 240 VAC, 50 / 60 Hz, approx 15 W
Front panel size	483 mm x 44 mm (19" x 1 3/4") (1 standard rack space high)
Overall depth	372 mm (14 3/4")
Net weight	approx 7 Kg (15.5 lbs)

**CDXD Decoder**

Analog audio output connectors	XLR male, 100 ohm balanced or unbalanced (switchable)
Analog audio output level	-10 dBu to +10 dBu, adjustable
Digitally coded input connector	BNC, unbalanced
Digitally coded input signal level	2.2 V p-p
Regenerated coded signal connector (for multiple hops)	BNC, unbalanced
Regenerated coded signal level (for multiple hops)	2.2 V p-p
Data Port	2,400 baud, RS 232, DB 9 male
Indicators	Analog audio levels, Voltages, Fault, Data, Sync Error
Power requirements	100 / 120 / 220 / 240 VAC, 50 / 60 Hz, approx 15 W
Front panel size	483 mm x 44 mm (19" x 1 3/4") (1 standard rack space high)
Overall depth	372 mm (14 3/4")
Net weight	approx 7 Kg (15.5 lbs)

**STL Transmitter & Receiver Requirements**

Deviation	38 kHz (2 channel models) / 53 kHz (4 channel models)
Bandwidth at - 3dB	250 kHz (2 channels models) / 450 kHz (4 channel models)
Total group delay variation	less than or equal to 0.5 µsec