

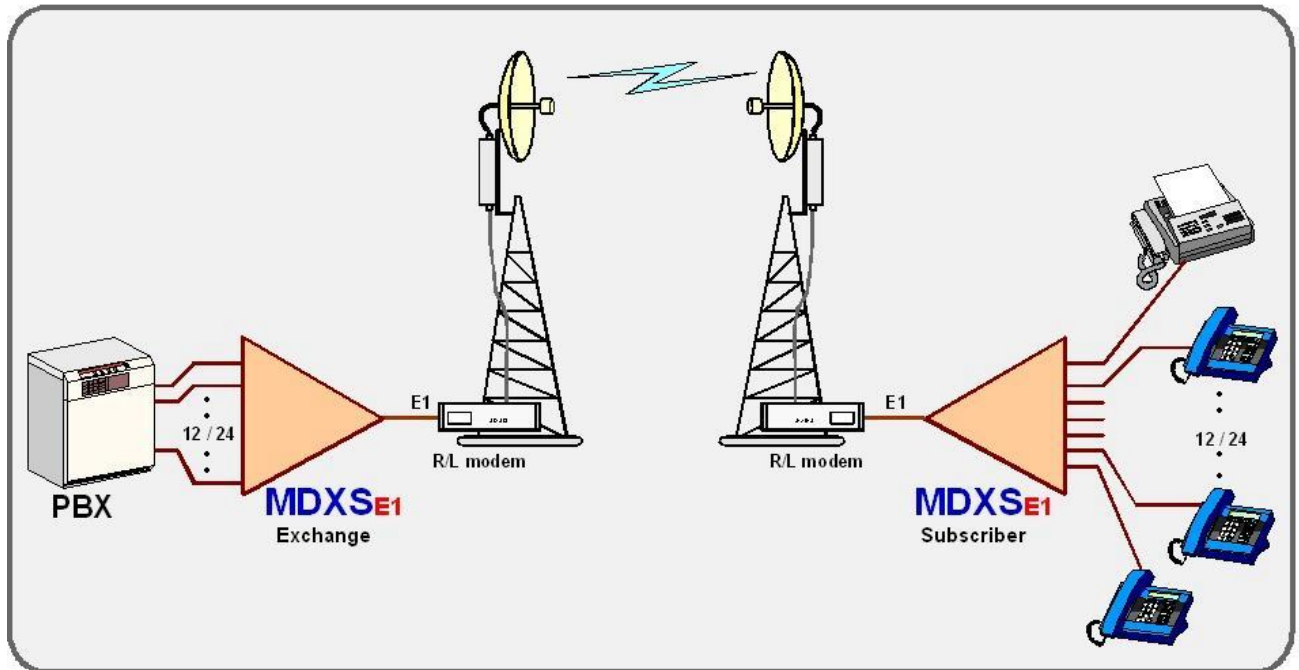


TÜBİTAK UEKAE  
NATIONAL RESEARCH INSTITUTE OF ELECTRONICS & CRYPTOLOGY

## MDXS<sub>E1</sub>

### Voice Multiplexer / Demultiplexer Equipment

*In the Tx side, converts 12 or 24 analog voice signals to PCM signals and multiplexes to E1 frame. In the receive side, demultiplexes the E1 signal and restores 12 or 24 voice channels.*



- Exchange side or subscriber side using
- Software Controlled Transmit and Receive Voice Level Adjustment
- Built in Ring Generator
- Can be used AC or DC Power Supply
- Can be controlled via RS232 Serial Port

TÜBİTAK UEKAE  
NATIONAL RESEARCH INSTITUTE OF ELECTRONICS & CRYPTOLOGY

P.O.Box 74  
41470 Gebze / Kocaeli  
TÜRKİYE

Tel : +90 (262) 648 1000  
Fax : +90 (262) 648 1100  
e-mail : [uekae@uekae.tubitak.gov.tr](mailto:uekae@uekae.tubitak.gov.tr)



## Technical Specifications

### VOICE CHANNELS

- Channel Capacity*
  - 12 or 24
- Bandwidth*
  - 64 kbit/s (per channel)
- Voice Coding*
  - PCM (ITU-T G.711), A-law

### ANALOG VOICE INTERFACE

- Connector*
  - 6-pin RJ-12
- Nominal level / Impedance*
  - 0 dBm / 600 Ohm
- Frequency Response*
  - 300-3000 Hz : ± 0.5 dB, 250-3400 Hz : ± 1.1 dB
- Level Adjustment (Software)*
  - Tx - Rx: +3 dBm / -12 dBm, (with 0.5dB steps)
- Idle Channel Noise*
  - < - 65 dBm0 (+20dBrc)

### RING GENERATOR

- 90 VRMS, 25 Hz

### LINE INTERFACE

- Connector*
  - 9 pin D-connector
- Data Rate*
  - E1 ( 2048 kbit/s)
- Line Coding & Nominal impedance*
  - HDB3 ve 120 Ohm
- Signal Level*
  - Receive : 0 / -10 dB, Transmit : ± 3V(± 10%)

### CONTROL, ALARMS & DISPLAYS

- Alarms with LED*
  - Loss of Input Signal, AIS received, Frame, BER, Loop
- Control*
  - RS-232, 19.200 bit/s (9-pin D conn.)

### POWER REQUIREMENT

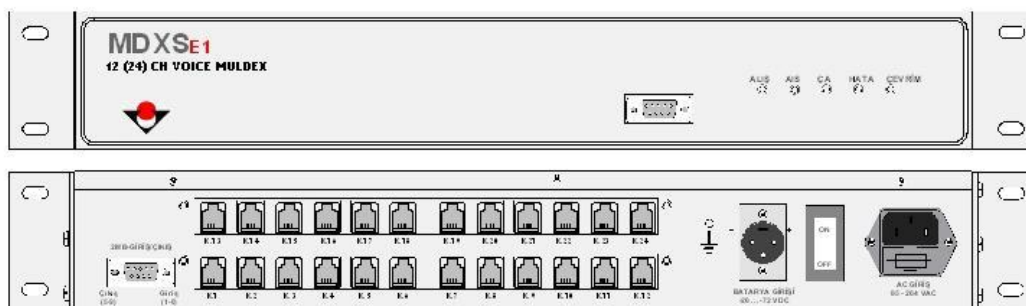
- Input Voltage*
  - -36 to -72 VDC or 85 – 264 VAC
- Dissipated Power*
  - 5 W max. (12 channel), 8 W max. (24 channel)

### ENVIRONMENTAL CONDITIONS

- Class 3.2 ( 0 / +50 °C) ETSI doc. prETS 300-019-1-0

### MECHANICAL DIMENSIONS

- 19 inch 1.5U box (483 x 235 x 67 mm)



◆ Due to continuing product improvements, these specifications are subject to change without notice.