

TeleLEX ES-0030

30 Ports Extension Switch

ES-0030 is an Extension Switch Box that provides 30 channels of extension line interface, connecting to a variety of media gateways in the AbovEdge™ family with just one E1 line. It supports caller ID generation, and message waiting indicator for the analog extension. The standalone architecture and compact design in a 1U 19" rack mountable enclosure makes the ES-0030 reliable, hot swappable and easy to install. Furthermore, the loop distance supported by an E1 line between the ES-0030 and the AbovEdge™ server can be extended to 1000 meters. The physical analog extension lines connected to the ES-0030 can be extended an additional 1000 meters, and, consequently, by implementing the ES-0030, the extension stations can be located up to 2,000 meters away from the AbovEdge™ server. If the ES-0030 and the AbovEdge™ server are connected through an E1 leased line provided by the Telephone Company, the ES-0030 and the extension lines can be physically extended as far as the Telephone Company can support. Thus, the remote department/branch can have the same PBX features as that of the main office AbovEdge™, and there is no need for remote departments or branch offices to equip the extra PBX systems or VoIP Gateway for external communication and internal toll savings.



FEATURES & BENEFITS

- 1U 19" Rack Mountable
- 30 channels of independent analog extension line interface
- Extension line maximum length up to 1 km
- Ready to connect to AbovEdge™ server.
- Supports distant extension connection (Max. 1Km) when direct wiring to AbovEdge
- Pickup/Hangup/Flash detection; Flash duration selection
- Ringing generation, caller ID generation, support message waiting indicator
- Cross-city connection through E1 lease line
- On-line Firmware upgradable
- Hot-swappable
- Cost-effective and easily manageable for extensions setup and extending.

TECHNICAL SPECIFICATIONS

Extension Interface:

- Loop start
- DC Supply: -62V (standby)
- Loop current: 25mA
- Interface impedance: 600 ohms
- Frequency response: 200~3400Hz
- Ringing: 45Vrms(20 Hz)
- Loop Range: 0~200 ohms
- Connector: two sets Modular RJ-45 phone jack x 4
- Pickup/Hangup/Flash detection; Flash duration selection
- Caller ID generating: DTMF or FSK (Bellcore GR-30-CORE)
- Message waiting indicator: Bellcore FSD 01-02-2000

E1 Interface:

- Nominal Bit Rate: 2048Kbit/s
- Frame Format: CRC4
- Line Code: HDB3
- Voice Channel: a-law/ μ -law compression
- Connector: RJ-45 x 2 (To TelePCX, To Central office) at rear panel of ES-0030 for direct wiring to AbovEdge™ server or connection to a remote AbovEdge™ through an E1 line.
- Load Impedence: $120\Omega \pm 5\%$, Balanced.

Power Supply:

- Input: AC 100V~240V, 50~60 Hz
- Power consumption: 70W (max.)

Dimension:

438mm×173mm×44mm(W×D×H)

LED Indicator:

- PWR LED (Green)
- SYS1 & SYS2 LED (Green): System status indicator
- RST LED (Red)
- FAN1 & FAN2 LED (Red): Fan alert
- Sync LED (Green) & Error LED (Orange): E1 link status indicator

Reset Switch:

- Reset switch at the front panel

APPLICATIONS

- Provides the analog extension interface to the AbovEdge™ server.
- For departments/branches locate within 2 Km (such as in different buildings nearby) from the AbovEdge™ server (No leased line required)
- Used to extend PBX functions (physical extensions) from AbovEdge™ server to remote department/branch as far as possible through the connection of E1 leased line.