PRESCOM ESTER
Teleconferencing Server

Dedicated to telecom operators and value added service providers,
ESTER® allows to provide a teleconferencing service.

ESTER® is a full digital teleconferencing server. It provides full duplex conversations to each conference participant. It connect from 30 up to 960 distant sites. Its modularity makes maintenance easier and ensures system availability. **ESTER®**'s architecture supports many simultaneous conferences. (up to 320 simultaneous conferences with 3 participants).

Sound quality

PRESCOM's initial approach, that governed and still governs the development of the teleconferencing system, is based on the following features:

- offering the best sound quality
- giving all participants equal rights to speak

Sound quality is primordial: teleconferences typically last longer than ordinary phone calls. Mediocre sound quality can disturb and fatigue because of the concentration it makes necessary.

PRESCOM is for this reason still committed to steadily improving sound quality through continuous investment in research and development on signal processing algorithms.

Adaptability and upgrade capability

Adaptability and an upgrade capability are two essential elements for any teleconferencing service Operator. Adaptability means being able to offer customers the services they expect and satisfy their demand for new functionalities. An upgrade capability is the assurance of being able to offer new services using complementary or interdependent new technologies.

To attain these two objectives, **PRESCOM**'s teleconference solutions are based on two principles:

- Modularity
- Subsidiarity

Subsidiarity means to process an event as close as possible to its source and allows a hierarchically ordered distribution of processing from the lowest level (signalling, signal processing, etc.) to the highest (supervision, management, billing, etc.)

Bridge Architecture

Based on the "Modularity" and "Subsidiarity" principles, the **ESTER** bridge is designed as a distributed architecture:

- Each input/output (user port) has the signal processing resources necessary to ensure the best possible speech quality,
- Each output "listens to" all the inputs.

This distributed architecture ensures the non-blocking and optimization of the use of resources:

- For a seize of 2P I/O, any number of simultaneous meetings can be set up, in all combinations, between one meeting with 2P participants and P meetings with two participants.

Technical Characteristics

- Hardware

ESTER® includes one or more shelves, composed among others of communication boards.

- Connection

behind a PABX or the public Network through E1: PRI (I.S.D.N.) or PCM 2 Mbps
(Most usual signaling types: Colisée, R2, DC5A...)

- Audio bandwidth

300-3400 Hz (ITU-T G.711)

- Weight

60 to 220 Kg

- Dimensions

l:19², h: 5U, up to 120 accesses

- Power supply

48 V CC 4A for 30 accesses
(220 - 240 VAC 50Hz 1A in option)

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