

General Description

The MUSAC-A is an upward compatible device to the components MTSC and MUSAC. Additionally to the standard MUSAC features switching and conferencing, the MUSAC-A supports additional attenuation functions.

Every time-slot is freely programmable in 1-dB step resolutions to an attenuation range from 0 to 12 dB and amplified from 0 to 4 dB.

With enlarged attenuation functions to every time-slot the MUSAC-A fulfills the ability for new requirements. I.e. different PBX terminals could be adapted to a certain reference point from the private network to the public network.

Features

Switching

- Time/space switch for 2048-, 4096- or 8192-kbit/s PCM systems
- Switching of up to 512 incoming PCM channels to up to 256 outgoing PCM channels
- 16 input and 8 output PCM lines
- Different kinds of modes (2048, 4096, 8192 kbit/s or mixed mode)
- Configurable for a 4096- and 8192-kHz device clock
- Tristate function for further expansion and tandem operation

Attenuation and Amplification

- Attenuation and amplification of every time-slot
- Attenuation range from 0 to 12 dB
- Amplification range from 0 to 4 dB

Type	Package
PEB 2445-N	P-LCC-44-1 (SMD)

Conference Mode

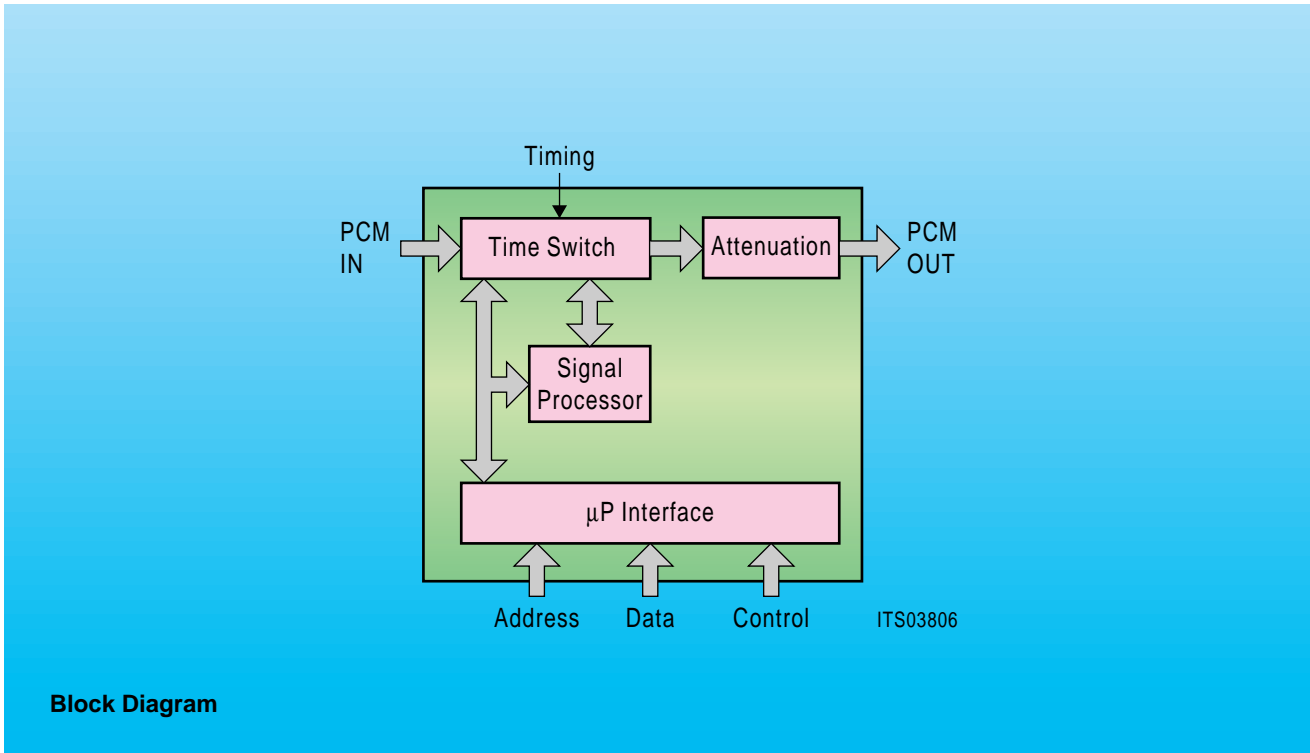
- Up to 64 conference channels in any combination
- Up to 21 independent conferences simultaneously (3 subscribers)
- Programmable attenuation (0/3/6/9 dB) on each input channel
- Programmable attenuation (0/3 dB) on each output channel
- Programmable PCM-level adaption (attenuation or amplification) of up to 64 channels
- Programmable noise suppression (four thresholds)
- Conference overflow handling
- Tone insertion capability
- A-Law/μ-Law compatible
- Compatible with all kinds of PCM-byte formats

Multipoint Switching

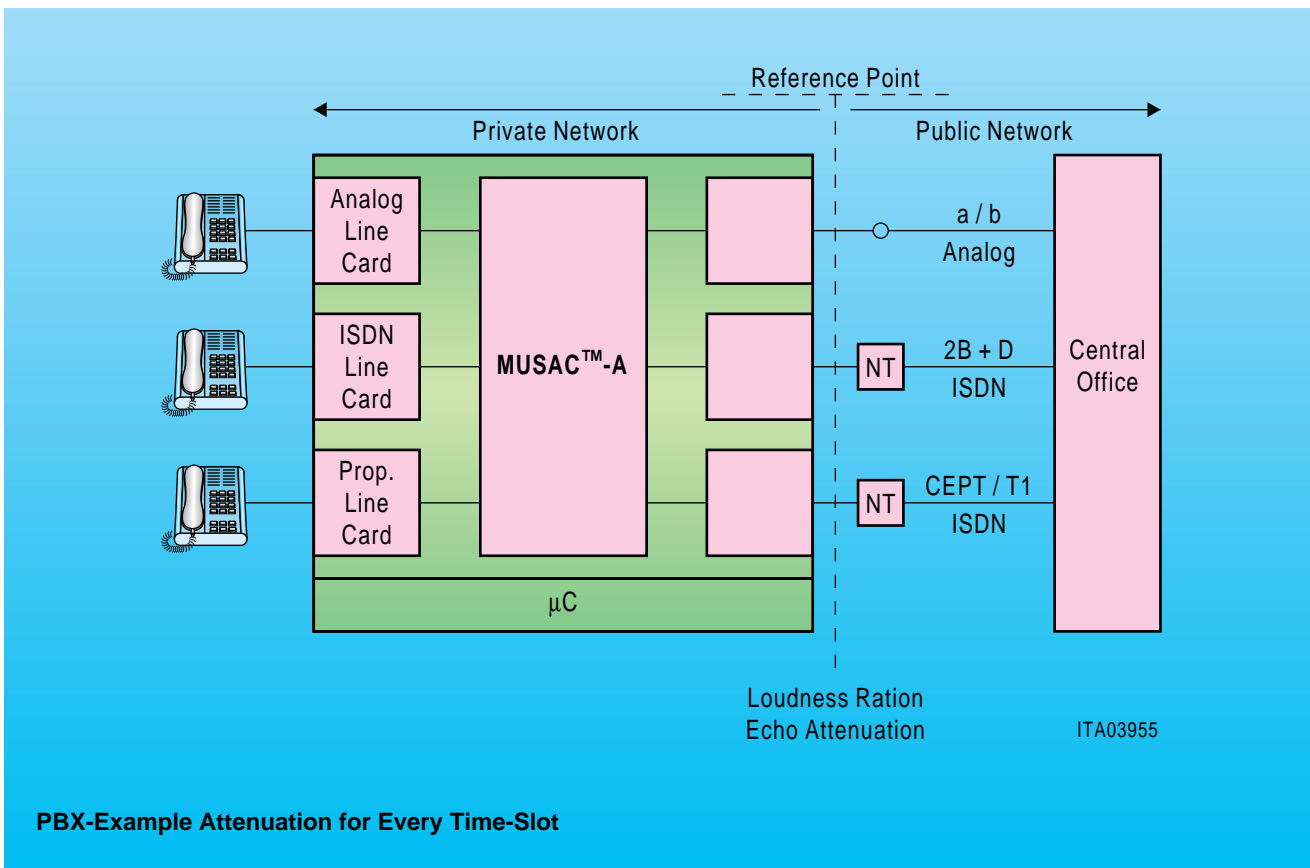
- Multiple independent LAN s within one PBX
- Multiplexing of up to 64 channels
- 64-kbit/s channels

General

- 8-bit μP interface
- Single + 5-V-power supply
- Advanced low power CMOS technology
- TTL compatible inputs/outputs
- Upward compatible to MTSL



Block Diagram



PBX-Example Attenuation for Every Time-Slot