

Central Audio Multiplexer (CAM3)

NCAM3-AAAA

Features

- Multiplexes 16 mono audio channels or 8 mono audio channels with 8 voice announcement channels in master mode
- Multiplexes 15 mono audio channels or 8 mono audio channels with 7 voice announcement channels in slave mode
- Supports "Global Announcement" to every address with audio via a separate channel
- LED indicators for audio level
- Symmetrical 0 dBm audio inputs
- Input gain setting per channel
- Interface to the voice announcement module
- Standard Ascom housing



Description

The Central Audio Multiplexer (CAM3) is contained in a standard Ascom housing. It converts the audio source signals to digital data for distribution over the teleCARE M audio distribution network. The CAM also supports a "Global Announcement" function and the Voice Announcement Module (VAM).

The set-up is done by DIP switches which set the number of used audio channels, voice announcement and if the CAM is a master or a slave. In combination with audio channels a "Global Announcement" channel can be included.

A data channel from the CAM is used to configure all the connected Remote Audio Modules (RAM). The available number of channels and whether voice announcement is used is made available on this data channel.

All audio inputs and the global announcement input are symmetrical to avoid hum and cross-talk. It is possible to set the input gain per channel to compensate for line losses to the CAM and to balance all audio channels at the same level.

Application

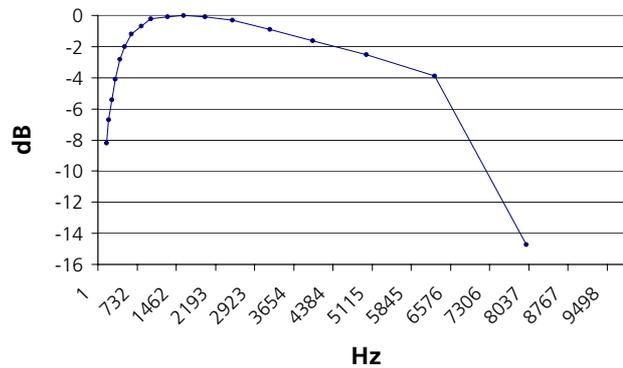
The CAM is the central controller for the audio distribution system in the teleCARE M system. It offers 16 audio channels. If the voice announcement is not used then all 16 channels are available for audio. If voice announcement is used then 8 channels are available for audio and 8 for voice announcement.

A maximum of two CAM's can be coupled as master and slave. In this configuration, without voice announcement, all 16 channels on the master are available for audio, and on the slave 15 channels are available for audio giving a total of 31 audio channels. The remaining channel on the slave is used by the master to control the RAM's in the system.

In the master/slave configuration with voice announcement, the master can support 8 audio channels and 8 voice announcement channels whereas the slave supports 8 audio channels and 7 voice announcement channels.

Technical Specifications

Dimensions:	130 x 275 x 60 (w x h x d)
Body material:	PC/ABS
Housing colour:	Grey / Black
Operating voltage:	24V / DC nominal (range 18V to 30V / DC)
Idle current:	120 mA
Maximum current:	130 mA
Audio bandwidth:	



Input Signals:	Average input signal = 0 dBm (DC decoupled) Maximum input signal = +6 dBm (DC decoupled)
Settings:	Input gain per channel variable by potentiometer DIP switches for the number of available audio channels, voice announcement yes / no and master / slave mode LED indicators peak or audio presence
Visuals:	Status LED: Green = power on (operating normally) Status LED: Green flashing = global announcement Status LED: Orange flashing = bad reception from master CAM Status LED: Red flashing = no signal from master CAM Channel input level LED's 1 - 16 = signal or peak (depending on the DIP switch setting) All LED's flashing red = system failure because of synchronization error
Maximum cable length:	300 meter from CAM to first RAM
Electrical connections:	j1: 8-pole detachable screw terminal (audio source channel 1 to 4) j2: 8-pole detachable screw terminal (audio source channel 5 to 8) j3: 8-pole detachable screw terminal (audio source channel 9 to 12) j4: 8-pole detachable screw terminal (audio source channel 13 to 16) j5: 8-pole RJ45 (digital audio bus "in") j6: 8-pole RJ45 (digital audio bus "out") j7: 4-pole detachable screw terminal ("Global Announcement") j8: 4-pole detachable screw terminal ("power")

Environmental: 0 - 40°C / 80% humidity

Standards and Certification: CE