



Digital Audio Switch KS41x2



DESCRIPTION

The KS41x2 audio switch was designed to be installed in radio broadcast transmitter stations, where it is used to switch one of four incoming radio programmes to the transmitter. The audio signals received are monitored, and if a level lies outside pre-programmed lower or upper limits, the equipment automatically switches another of three pre-programmable signals to the transmitter. The switch can be installed in analogue or digital environments, because it switches simultaneously analogue input signals to analogue outputs, and AES/EBU input signals to AES/EBU outputs. The KS41x2 switch is a double 4 x 1 switch that has four stereo analogue inputs and four AES/EBU inputs. One of the analogue input signals is switched to three parallel analogue outputs, and/or one of the AES/EBU input signals is switched to three parallel AES/EBU outputs. The two 4 x 1 switches work in parallel. The three analogue, resp. AES/EBU outputs are isolated from each other by distribution amplifiers. The input signals are monitored by level monitoring circuits with adjustable upper and lower level thresholds. If an input signal is outside one of the level limits for longer than a selectable time, the KS41x2 switch switches to another selectable input signal (back up). If the main signal is back again inside the level limits during another pre-programmable time, the KS41x2 switch switches back to the main signal after a configurable time. In case of a power failure, built-in relays connect the first analogue input signal to the analogue outputs, and it also connects the first AES/EBU input signal to the AES/EBU outputs.

FEATURES

The audio switch is managed by a built-in processor that establishes the control interfaces with the external world, inclusive of SNMP. The level monitoring circuits are configured (setting of the level thresholds and times) by means of a PC that uses an internal configuration software. The switch is controlled in four ways:

1. Locally by push buttons
2. Automatically by a built-in level monitoring circuitry
3. Remotely by GPI signals
4. Remotely via SNMP

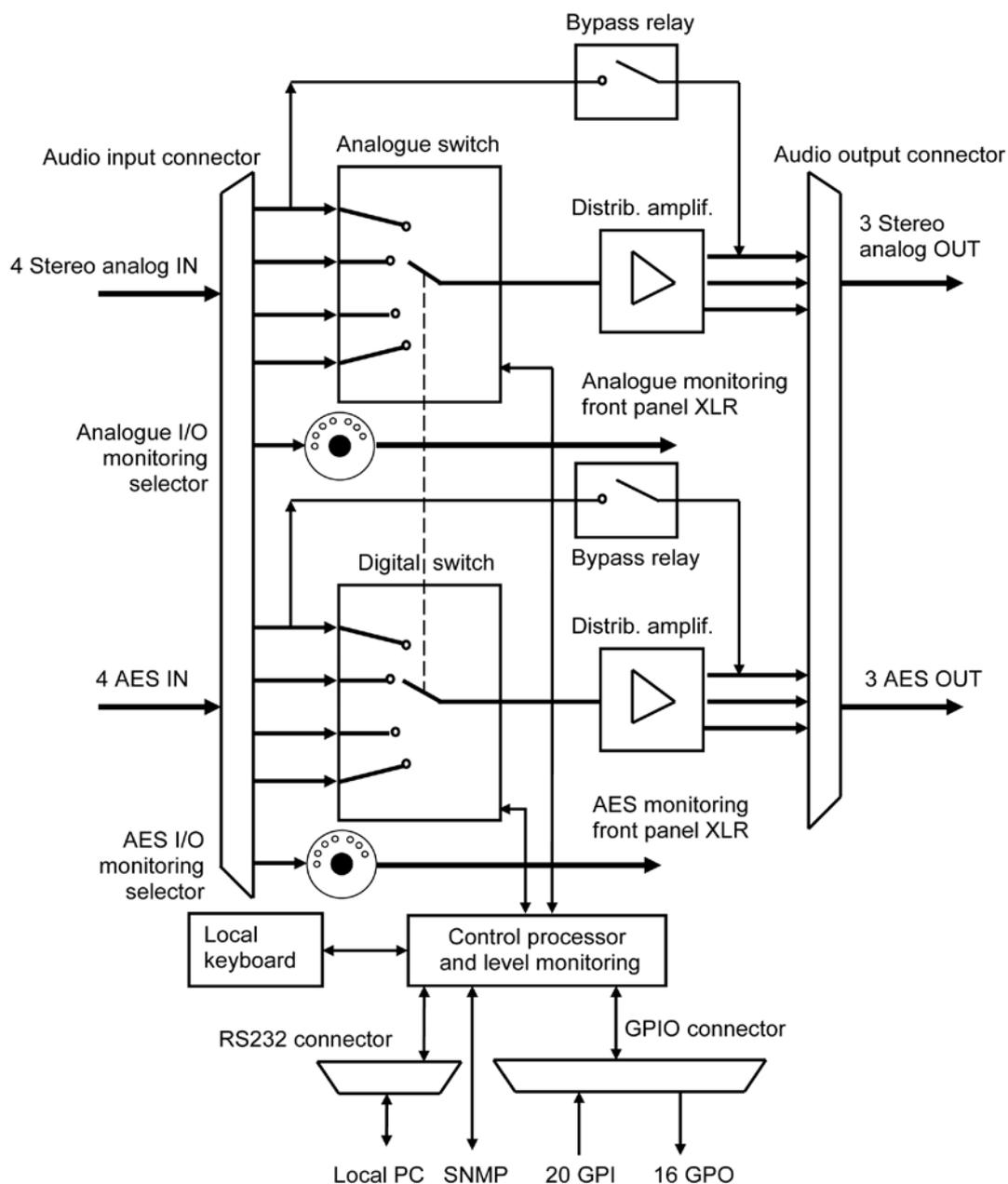
The state of the switch is signalled in three ways:

1. By LEDs in the push buttons of the front plate
2. By GPO
3. Via SNMP

The switch is powered by two redundant 48 VDC power supply units that are inserted into the back of the equipment. Defective power supply units can be exchanged during normal operation of the audio switch.

The audio as well as the GPIO signals are connected to the audio switch via SubD connectors mounted at the back.

FUNCTIONAL BLOCK DIAGRAM



Ver.1 11/13



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