

ALT 8x8 G4

LINE TRANSFER UNIT



Avec G4 is a Finnish-made sound reproduction and voice evacuation system that delivers performance and flexibility. It is suitable for background music, public address, and voice evacuation in public buildings, as well as maritime PAGA systems.

As a fully digital platform, Avec G4 provides excellent sound quality, high efficiency, and a scalable system architecture, making it a reliable solution for both safety-critical and everyday public address needs.

The unit features versatile input and output connections, per-input and per-output DSP, an internal default message player, and EN 54-16 compliant monitoring features.

ALT 8X8 G4 LINE TRANSFER UNIT

The ALT 8x8 is a line transfer unit designed for the Audico Avec system. It converts the low-impedance (4Ω) amplifier outputs of ADA 8x8 system units into 70 V or 100 V loudspeaker lines, enabling the use of high-impedance loudspeaker networks.

For high-performance installations, the ALT 8x8 is also available with an integrated fan, allowing prolonged continuous load periods without performance degradation.

The ALT 8x8 contains eight separate transformers, each with:

- 4Ω input
- 70 V and 100 V output

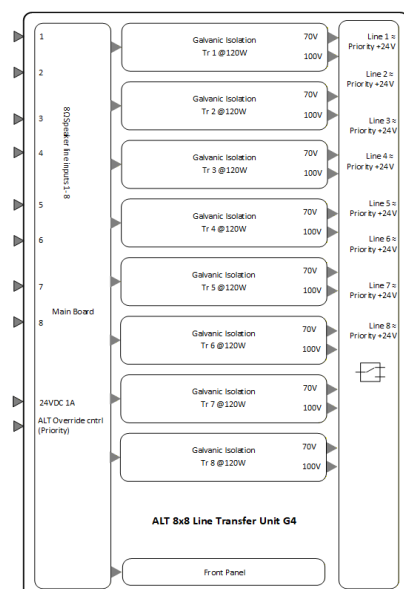
The individual transformers provide galvanic isolation between the amplifiers and the loudspeaker networks. In a short circuit situation, this design provides additional protection against amplifier failure.

The unit also provides 24 VDC priority voltage for attenuator bypass relays. Priority voltage ensures that emergency and priority announcements are always heard, regardless of local volume settings.

Output lines can be connected in parallel to increase the available power for a single loudspeaker line.

TECHNICAL FEATURES

Operation Voltage	24 VDC / 1 A (supplied by ADA 8x8)
Inputs	Control data from ADA 8x8 (RJ45 cable)
Outputs	8 output channels
Output Power Options	120 W / channel (max.) 240 W
Output Voltage	70–100 V (factory 100V)
Priority Voltage	24 VDC tai 0 V Max. 1 A from ADA 8x8 For higher current needs, the ALT 8x8 requires an external 24 VDC power supply.
Monitoring	Acc.to EN 54-16
Dimensions (W × H × D)	485 × 88 × 380 mm (2U)
Weight	Net: 13 kg
Gross Weight:	14 kg
Product number	002353 ALT8x8 G4 Transformer Unit (EN 54-16) 002354 ALT8x8 G4 Transformer Unit with Fan (EN 54-16)





LOW-IMPEDANCE INPUTS

The ALT 8x8 is designed to be installed between the ADA 8x8 central unit and a high-impedance loudspeaker network. It converts the ADA 8x8 4 Ω output signals into 70 V or 100 V lines.

- The loudspeaker load connected to a single ALT output should not exceed 120 W.
- By connecting two ALT 8x8 outputs in parallel, the available output power increases to 240 W.

Minimum speaker network impedance per line:

- 70 V lines:
 - 41 Ω @120W
 - 20,5 Ω @240W
- 100 V lines:
 - 83 Ω @120W
 - 41,5 Ω @240W)

24 VDC OPERATING VOLTAGE

The operating voltage of the ALT 8x8 is 24 VDC. The ADA 8x8 central unit includes a dedicated output to power the ALT.

Limitation: If a large number of priority relays are connected and the required current exceeds 1 A, the ALT must be powered by an external 24 VDC supply capable of providing the necessary current.

CONTROL INPUT

The priority relay outputs are controlled by the ADA 8x8 central unit. Relay control data is transmitted to the ALT via a standard RJ45 cable.

SPEAKER LINE OUTPUTS (70/100 V)

The ALT 8x8 provides eight loudspeaker line outputs with a maximum output power of 120 W per line.

Main features:

- Output voltage (70 V / 100 V) can be modified internally at each transformer.
- The unit is factory-configured for 100 V operation.
- 24 VDC priority voltage is available on each line during paging and emergency events.
- Priority can also be configured as a fail-safe mode, where relays activate when voltage is absent (active = 0 V).
- Each output includes
 - + / - signal pins,
 - a ground pin
 - OVERRIDE pins providing priority voltage per line.

AEU 100 LINE END UNIT

In systems built in accordance with EN 54-16, every loudspeaker line should be equipped with an AEU 100 Line End Unit.

Using AEU 100 units enhances system surveillance and prevents false alarms caused by changes in air pressure or humidity. The AEU 100 is installed next to the last loudspeaker in the line.

STANDARDS AND REQUIREMENTS

The product is RoHS-compliant and has been tested and approved for all relevant safety and electromagnetic compatibility (EMC) standards.

The ALT 8x8 is certified and compliant with:

- **EN 54-16** - Voice alarm system control and indicating equipment
- **EN 60945** - Maritime navigation and radio communication equipment
- (as part of the Audico AVEC product family)

The product must be recycled in accordance with WEEE regulations. Shape

RoHS
compliant

