

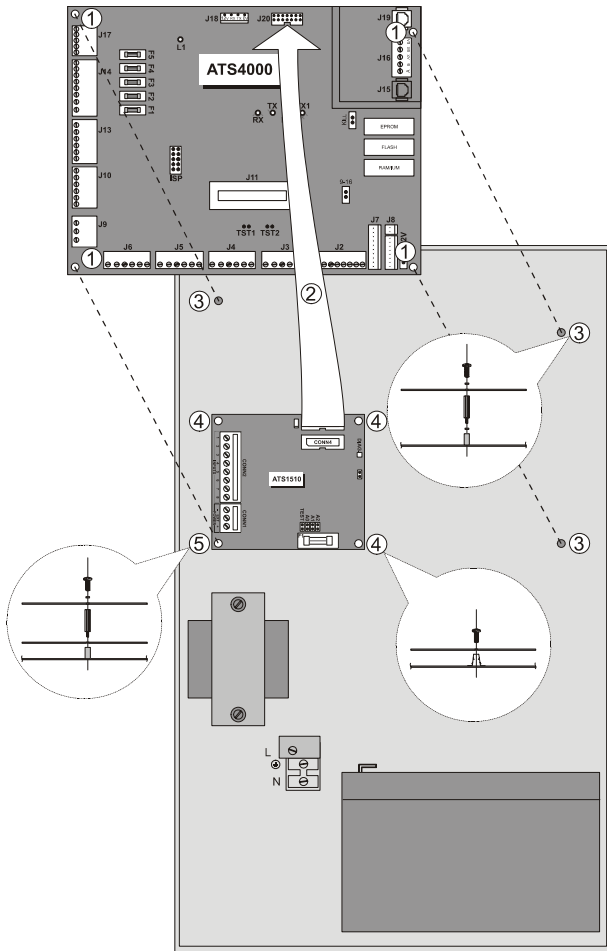


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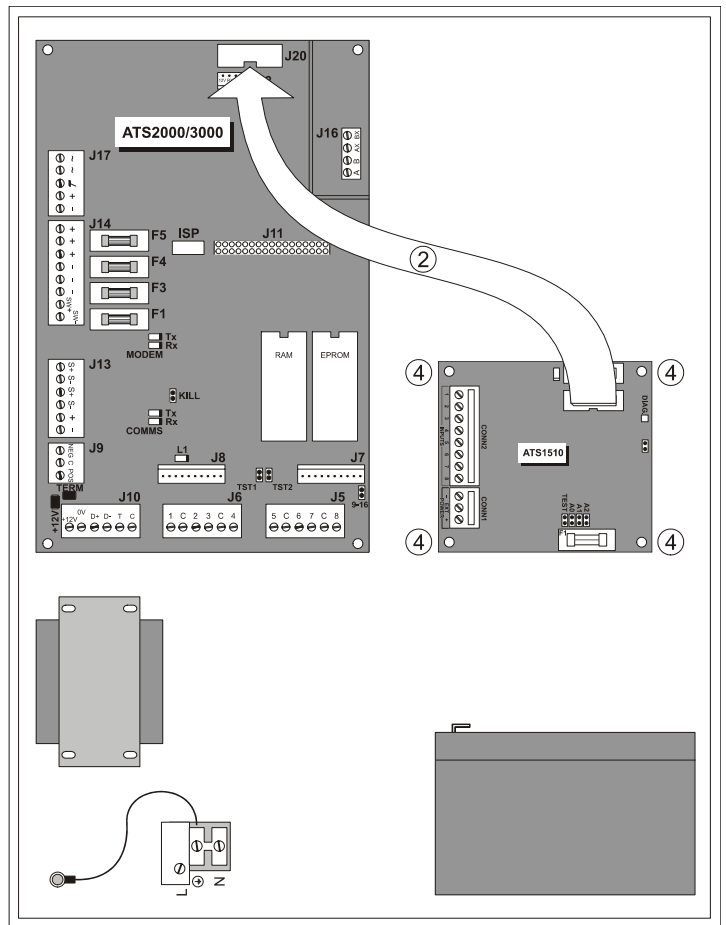
ARITECH

ATS1510 Audio Module

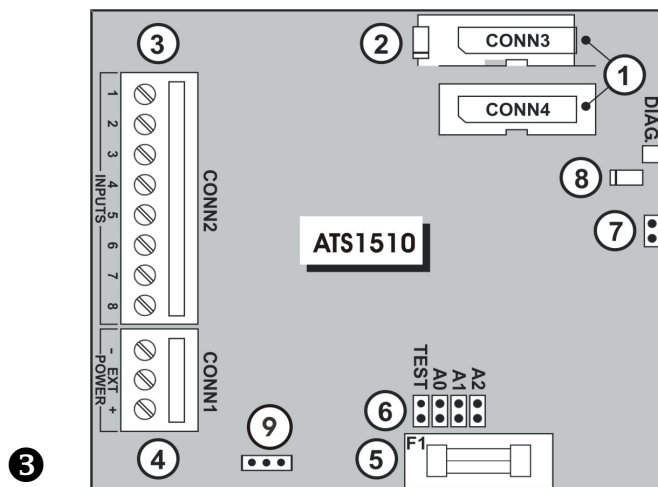
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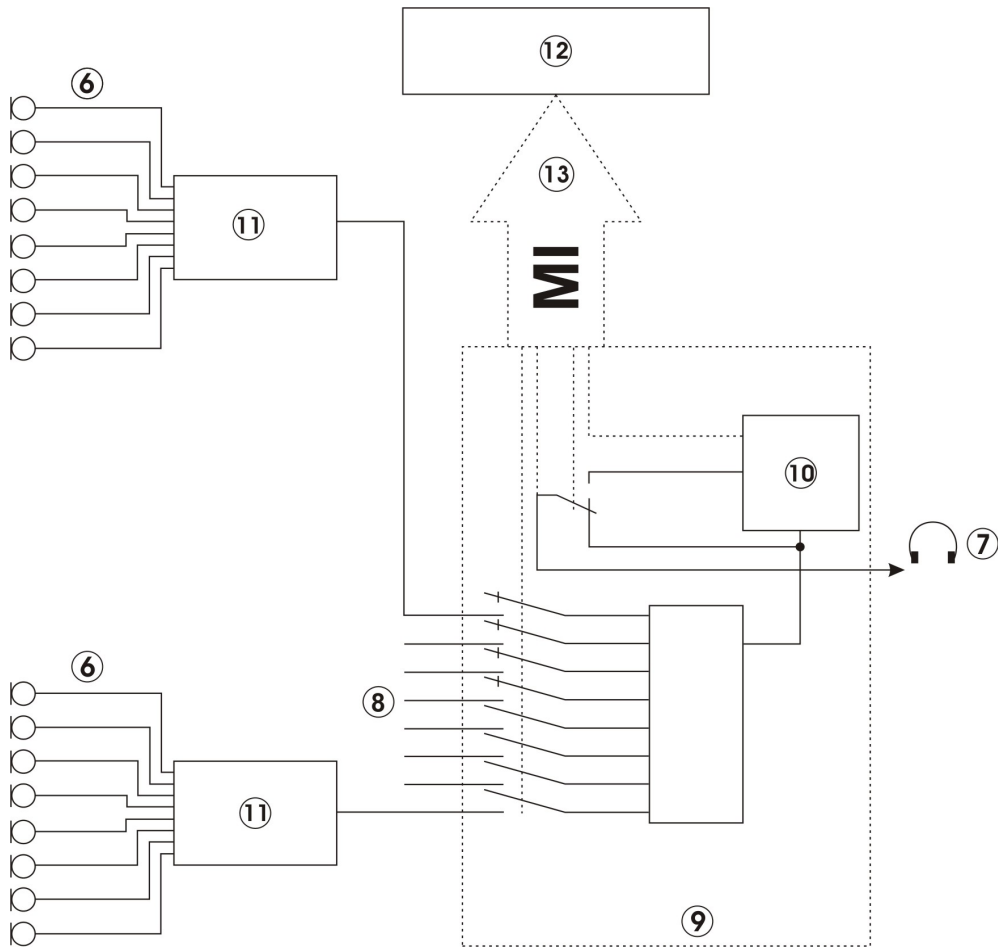
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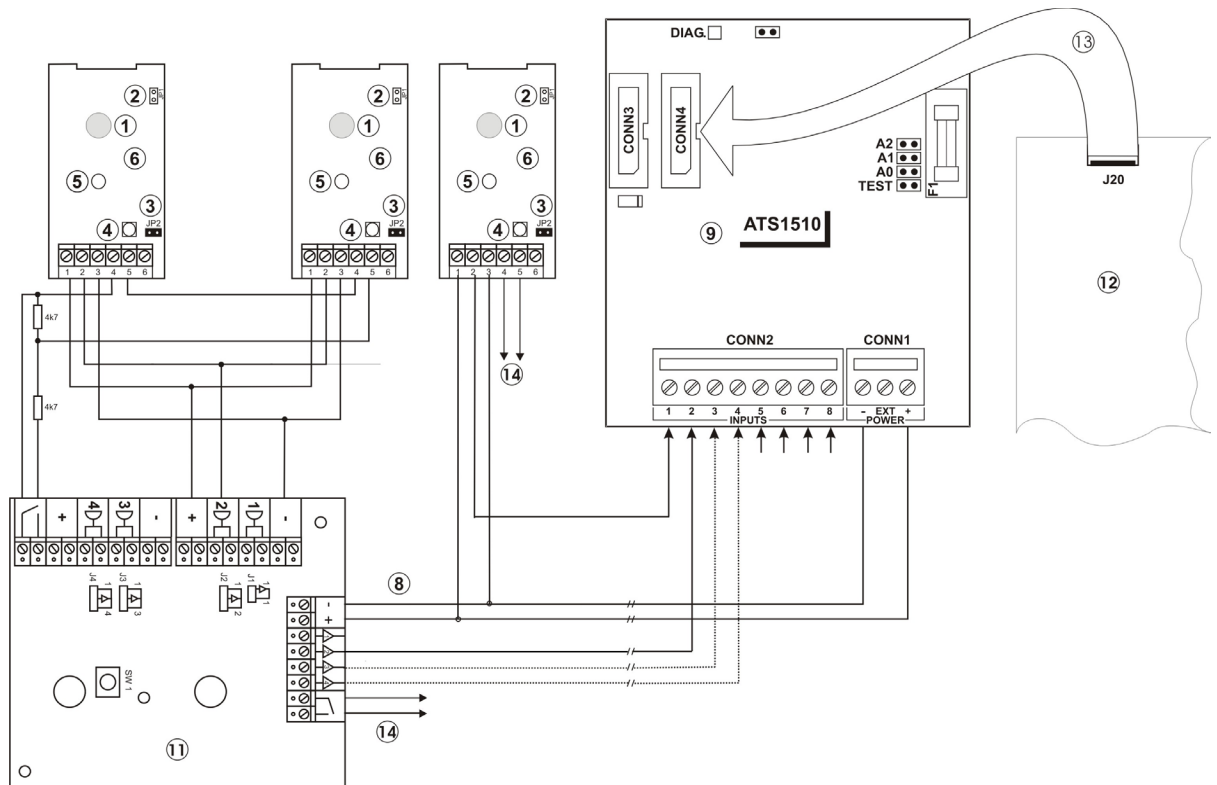
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Audio Module

WHAT DOES IT DO?

The ATS1510 allows event reporting including audio information used to verify alarms by providing both live and recorded audio.

HOW DOES IT ALLOW EVENT REPORTING? (REF. TO FIG. ① & ②)

Event reporting takes place by transmitting messages over the telephone. After transmission of alarm information, audio information is available for a certain period. Audio information available provides for live and recorded audio information. Recorded audio (10) contains 15 seconds of audio information before and 15 seconds after an alarm has occurred. Audio information is picked up by the RD3000AGC (6) microphones and wired (8) to the ATS1510 (9) through RD3300 mixers (11). It is advisable to use the RD3300 mixer in the following situations:

1. When the microphone cable distance is more than 50 metres; and
2. When more than one microphone per area is required.

The ATS1510 sends audio information to the control panel (12) via the MI-bus (13). For maintenance purposes, a headphone can be connected to check audio levels (7).

Note:

1. Recorded audio is only available for armed areas.
2. Microphones can be selected for areas using J1 to J4 on the mixer board. For example, you can have individual connections from four inputs to four outputs to four areas. Another possibility is to mix the four inputs individually depending on the positions of J2, J3 and J4.
3. The tamper outputs (14) must be connected to the next available zone of a DGP or the ATS control panel.

INPUTS AND AREAS

The 8 audio inputs can be assigned to the first 8 areas of the ATS panel. The 8 audio inputs of a second ATS1510 (not available for ATS2000/3000) can be assigned to areas 9 – 16 of the ATS panel.

MOUNTING LOCATION (REF. TO FIGURE ① & ②)

The ATS1510 must be mounted inside an ATS panel housing.

Important:

1. Disconnect the mains power before opening the cabinet.
2. Disconnect AC mains plug from AC mains wall socket. OR
3. Disconnect the mains with a dedicated circuit breaker.
4. Disconnect the battery (if applicable).

MOUNTING THE UNIT (REF. TO FIGURE ① & ②)

Mounting the ATS1510 into the control panel (ATS2000/3000/4500 series)

1. Place the clips in the square holes (4) (use metal pillars when available).
2. Mount the ATS1510 using screws.

Mounting the ATS1510 into the control panel (ATS4000 series)

1. Remove the screws (1) and lift off the control panel PCB.
2. Place the extension pillars with the plastic rings on top of the existing pillars (3).
3. Place the clips in the square holes (4).
4. Mount the ATS1510 using the screws and extension pillars (5).
5. Place the ATS control panel PCB back into its original position.

CONNECTING THE AUDIO MODULE (MI BUS)

1. Connect the flat cable (2) from the control panel (connector J20) to the ATS1510 (connector CONN3 or CONN4).

ADVISED WIRING

To meet CE requirements the cable connected between the RD 3000AGC, the RD 3300 and the ATS1510 **MUST** be a screened cable. For optimal results, use the following types of cable:

RD 3000AGC to RD 3300	Screened single twisted pair (single area per cable run), – max. 50 m
RD 3300 to ATS1510	Individually screened cable, max 800 m Individually screened cable, max 8 km

CONNECTING MIXERS AND MICROPHONES (REF. TO FIGURE ③)

No.	Description	Function
1.	Microphone	Microphone on the RD3000AGC
2.	JP1	Fixed gain
3.	JP2	Automatic gain control (preferred setting)

No.	Description	Function
4.	Tamper switch	Wired separately to the mixer board. The output (8) must be connected to the Control Panel (9).
5.	Led	Provides indication that microphone is active and picking up audio information.
6.	RD3000AGC	Microphone module
7.	RD3300 audio mixer board	Mixes signals from different microphones to separate or to a single output (J1, J2, J3 and J4)
8.	Tamper	Tamper output to control panel input.
9.	ATS Control panel	ATS2000/3000/4000/4500

DESCRIPTION OF THE ATS1510 (REF. TO FIGURE ③)

No.	Description	Function
1.	CONN 3/CONN 4 (System connector)	Communicates between the ATS1510 and the main panel.
2.	LED (green)	Flashing indicates presence of +12 VDC power.
3.	Conn 2	Audio inputs from RD3300 mixers.
4.	Conn 1	Power supply output (+ and -) to ATS3300 mixers and external power input (EXT and -).
5.	Fuse	Fuse (315 mA QB) to secure power supply output.
6.	Jumpers	Test – Puts ATS1510 under test A0, A1, A2 – MI address selection
7.	Headphone	Output providing audio for checking audio levels.
8.	LED (red)	Diagnostics LED indicating audio levels during recording and playback.
9.	Int/Ext. jumper	Selects int./ext. Power supply (Factory default set to internal)

HOW TO POWER EXTERNAL DEVICES (RD3000 AND RD3300AGC) (REF TO FIGURE ④)

The Int/Ext. Jumper defines if the power supply output (4) for external devices is delivered by the internal power supply (Fused, 315 mA max.) or is delivered by an external power supply (EXT, CONN1). Connect the + from the external power supply to EXT POWER and the – to – of CONN1.

MI ADDRESS SELECTION AND POSITIONING JUMPERS

The address of the ATS1510 on the MI-bus is determined by three jumpers. These jumpers are placed beside the fuse holder, and are labelled A0, A1 and A2. If only one module is used, all jumpers will be present. For the second module, jumper A0 will be removed.

Device	Jumpers			Default	I = Inserted R = Removed
	A0	A1	A2		
Module 1	I	I	I		
Module 2	R	I	I		

Note: A maximum of two modules can be connected. If two modules are used, audio information for 16 areas is available.

TESTING THE AUDIO MODULE (REF. TO FIGURE ⑤)

1. Place the TEST jumper on the TEST position (6).
2. Turn the power on. The MI Bus (green LED) lights up and remains lighted during the test mode. (The audio module will perform a self-test.
 - First a memory test will be performed for 15-20 sec.
 - Then the Diagnostics LED will light up (flashing will indicate memory test failed).
3. Connect a wire between the DIAG and input 1 from CONN 2. After a short delay, the Diagnostics LED should go off for approximately 0.5 sec. If not, retry.
4. If the test succeeds, do the same for inputs 2 – 8 in sequential order.
5. Three seconds after successfully testing input 8, the Diagnostics LED will go off and stay off.
6. Remove the TEST jumper from the TEST position. The green LED will blink to indicate normal operation.

Technical Specifications	
Power supply	12 V \pm via ribbon cable from control panel or from external source.
Output current to mixers/microphones	Max. 250 mA
Current consumption - ATS1510 - RD3300 - RD3000AGC	15 – 23 mA 2 mA 3.5 – 7 mA
Recording capacity	15 seconds before and 15 seconds after alarm (30 sec. total)
Dimensions	90 mm x 80 mm x 20 mm
Weight - ATS1510 - RD3300 - RD3000AGC	136 gr. 286 gr. 66 gr.
Temperature	10°C to +50°C
Automatic gain control during recording	Yes