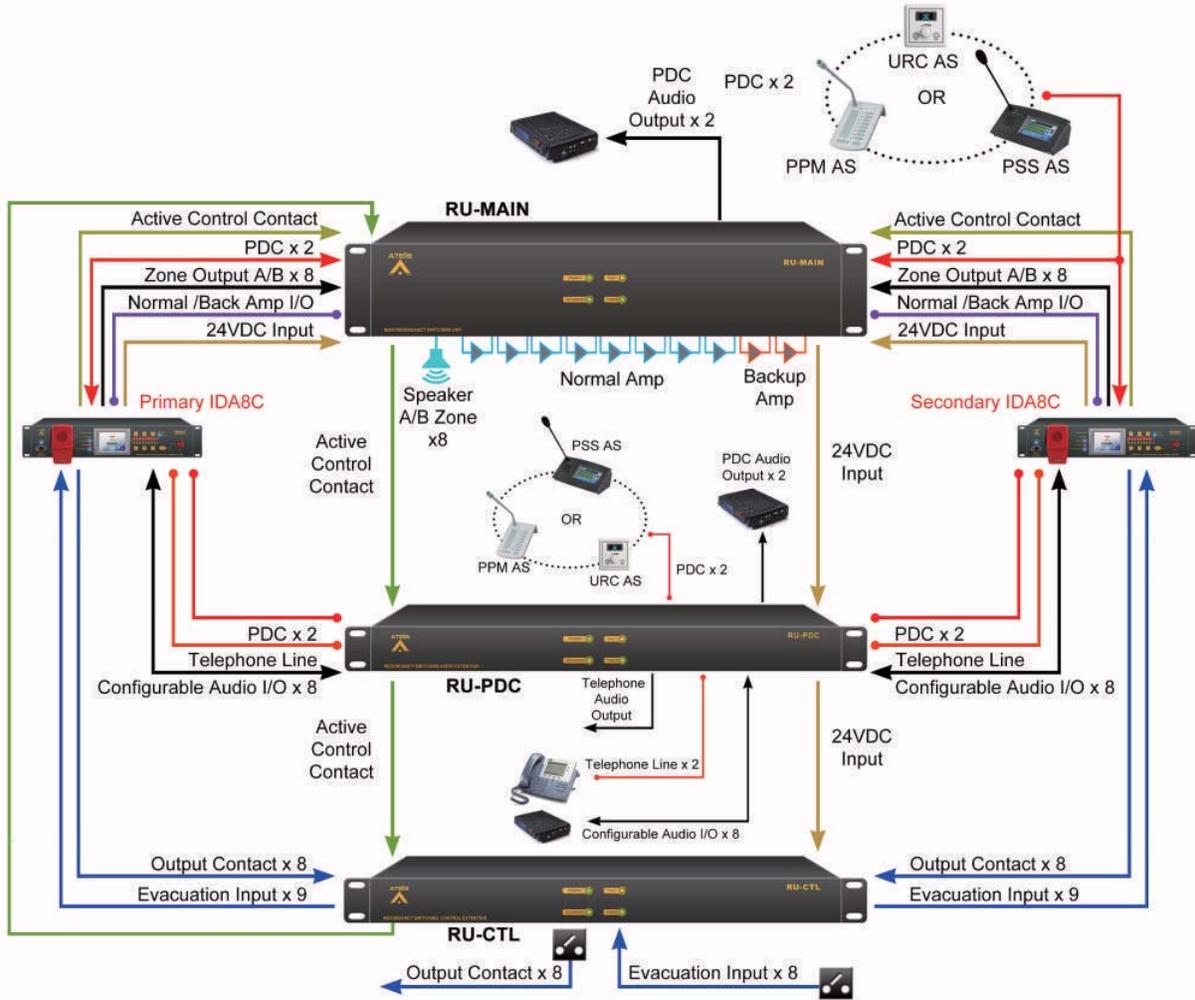


RU-MAIN / CTL / PDC

IDA8 FULL-REDUNDANCY SWITCHING UNIT



In place of highly sensitive and secured integration such as nuclear power centrals, underground industrial systems or places where people have to thrust on a 100% availability of a PA/VA system may requires additional full-redundancy system. Redundancy is a very widely-spread application that needs to be further specified into a required level of redundancy. Compared to the higher levels of redundancy which requires for A/B wiring of the loudspeaker lines where loss of the A or B line or system still ensures a minimum coverage of 50% of the venue, spare amplifiers and surveillance of essential components in normal PA/VA systems aren't capable to support emergency cases. At this high level of redundancy, not only the amplifiers have redundancy by means of active spare amplifiers, but also the central equipment will provide a full back-up. And this is what we call: Full-Redundancy. ATEİS RU, the thorough switching devices ,providing the high level of redundancy and acting as a Primary / Secondary switching device for IDA8C Controller and IDA8SAB Slave unit. Here are the three types of devices listed below,

RU-Main: Switching unit for digital audio processing with paging console interface.

RU-CTL: Switching unit for secured input and normal output contacts.

RU-PDC: Switching unit for auxiliary audio IN and OUT contacts with paging console & telephone line interface.

RU device is a device supplied with full-redundancy for audio processor. RU device is in charge of switching primary and secondary audio processor to active one of them. If primary audio processor is active, all signal of peripherals shall be redirected to the primary audio processor by RU device. RU device is also capable to monitor the status of audio processor. If primary audio processor breaks down, RU device will detect automatically and switch to secondary audio processor.

IDA8 system

RU-MAIN / CTL / PDC

IDA8 FULL-REDUNDANCY SWITCHING UNIT

CONTROLS AND INDICATORS

Front

- Primary Active Indicator
- Secondary Active Indicator
- Fault Indicator
- Power Indicator

INTERCONNECTIONS

RU-MAIN

- 8 speaker lines, 8 amplifiers, 2 backup amps, 2 PSS inputs, 2 record Out
- Switching: Electrical mechanical relays
- Switching time: 6 seconds (IDA8 watchdog period)
- Connections: RJ 45, Screw terminals blocks
- LED display: power, Primary IDA8 system active, Secondary IDA8 system Active
- Control inputs: Primary IDA8 system watchdog, Secondary IDA8 system watchdog
- Control outputs: Primary IDA8 system active, Secondary IDA8 system Active, Expansion

RU-CTL

- 8 x Output contacts, 9 x alarm inputs
- Switching: Electrical mechanical relays
- Switching time: 6 seconds (IDA8 watchdog period)
- Connections: Screw terminals blocks
- LED display: power, Primary IDA8 system active, Secondary IDA8 system Active
- Control inputs: Primary IDA8 system watchdog, Secondary IDA8 system watchdog
- Control outputs: Primary IDA8 system active, Secondary IDA8 system Active, Expansion

RU-PDC

- 8 x 0dB inputs or outputs , 2 PSS inputs, 2 Tel inputs
- Switching: Electrical mechanical relays
- Switching time: 6 seconds (IDA8 watchdog period)
- Connections: RJ 45, Screw terminals blocks

- LED display: power, Primary IDA8 system active, Secondary IDA8 system Active
- Control inputs: Primary IDA8 system watchdog, Secondary IDA8 system watchdog
- Control outputs: Primary IDA8 system active, Secondary IDA8 system Active, Expansion

PARTS INCLUDED

Quantities	Components
1	RU-xx unit
1	Power cord (type depends on region)

TECHNICAL SPECIFICATIONS

Electrical

Power supply

Voltage 24 VDC

Power consumption

RU-MAIN	600mA
RU-CTL	200mA
RU-PDC	350mA

Mechanical

Dimensions (With 19" rack mount brackets)

(H x W x D)

RU-MAIN	2RU, 88 x 436 x 150 mm (3-1/2" x 17-1/5" x 5-9/10")
RU-CTL/PDC	1RU, 44 x 436 x 150 mm (1-3/4" x 17-1/5" x 5-9/10")

Weight

RU-MAIN	4.5 kg (10 lbs)
RU-CTL/PDC	2.5 kg (5.5 lbs)

Mounting 19"-rack mount

Color RAL7016

Environmental

Operating temperature -5°C ~ 55°C (23°F ~ 131°F)

Storage temperature -40°C ~ 70°C (-40°F ~ 158°F)

Relative humidity 15% to 90%

Air pressure 600 to 1100 h Pa

Heat Dissipation

RU-MAIN	50 BUT/hr
RU-CTL	16 BUT/hr
RU-PDC	28 BUT/hr

