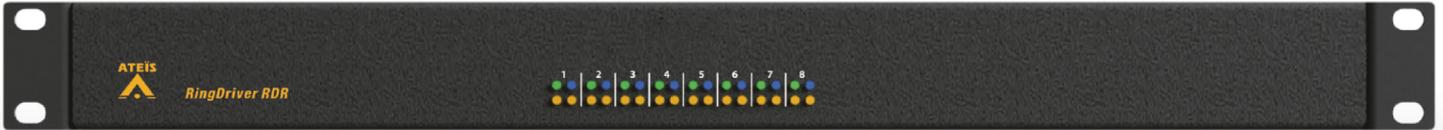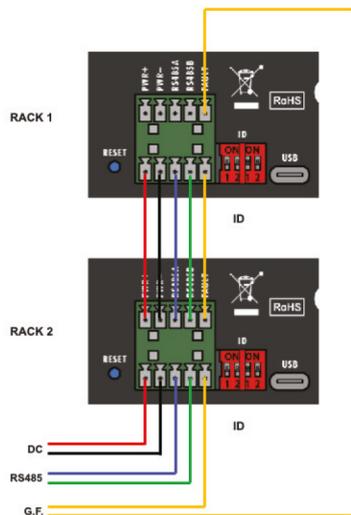# RING DRIVER RACK - RDR

Central Rack Controller

The **Central Rack Device (RDR)** serves as the core of the Ring Driver System, designed to accommodate up to **8 Ring Driver Cards (RDC)**. Each RDR is factory-equipped with two RDC as standard, enabling 2 rings. Every Ring Driver Card supports a loudspeaker load of up to 500 W and can manage **up to 100 Ring Protector Units (RPU)**.

In the event of a **fault condition**, the RDC continues to supply both loop branches **A and B** independently. The fault status is visually indicated via the **LED status** on the RDR's front panel.
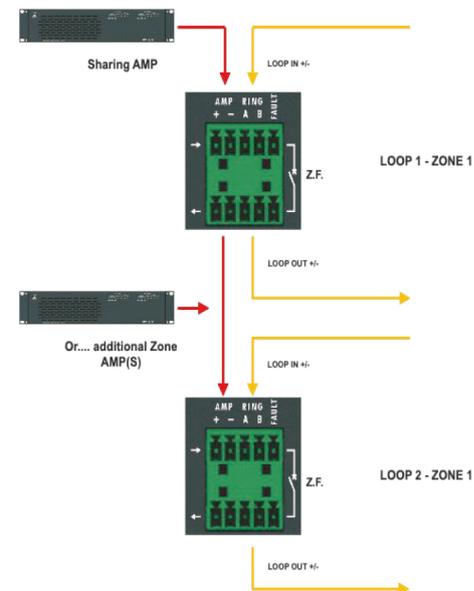
The RDR includes:

- **DC input** for connection from the VACIE emergency power supply
- General Fault output contact and zone fault output contacts
- **USB port** for programming and monitoring
- **General reset button** for performing a complete system reboot

For larger systems, multiple RDR can be interconnected via an **RS-485 serial link**, allowing remote **monitoring and addressing**.

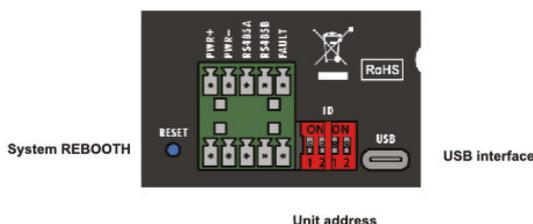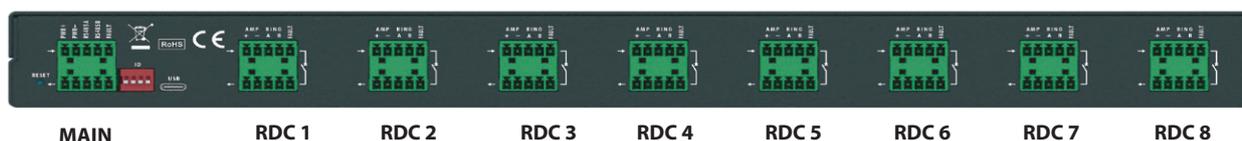**TYPICAL RDR INTERCONNECTION:**

RDR DATA-CONNECTION:

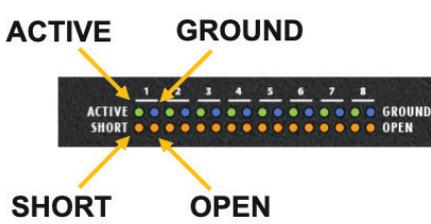**TYPICAL RDC INTERCONNECTION:**

ATEÏS Europe B.V.
Celsiusstraat 1 - 2652 XN Lansingerland (Rotterdam Region), Netherlands
Tel: +31 (0)10 2088690 | www.ateis-europe.com | info.eu@ateis.global

RING DRIVER RACK - RDR

Central Rack Controller

RING DRIVER RACK Rear View

| MAIN | RDC 1 | RDC 2 | RDC 3 | RDC 4 | RDC 5 | RDC 6 | RDC 7 | RDC 8 |

TECHNICAL SPECIFICATIONS:

RDR		INDICATORS	
DC Power supply	18 - 50 VDC Max. 5Amp inrush	Quiescent	GREEN
Quiescent, 2x RDC	1W	Short	Flash Fast ORANGE (2Hz)
Wiring	0.8 - 1.5mm2	Short memory	Flash Slow ORANGE (0,5Hz)
Connectors	2 x 5 PIN, Degson	Open	Flash Fast ORANGE (2Hz)
Fault contact	General fault	Open memory	Flash Slow ORANGE (0,5Hz)
Communication	RS485 & USB	Earth leakage (RDC)	Flash Fast GREEN (2Hz)
Safety	EN60065 EN50130-4	Earth leakage (RDC) memory	Flash Slow GREEN (0,5Hz)
FSS-COC	252330005/AA/00		

RDC			
Max. Audio power handling	500W/100V		
Frequency respond	40Hz - 20kHz (+/- 3dB)		
Fault contact	Zone fault		
Connectors	2 x 5 PIN, Degson		
Wiring	0.8 - 1.5mm2		

MECHANICAL RDR		ORDERING INFORMATION	
Housing, 19" rack	IP-30 437x44x260mm (WxHxD) 1.5kg RAL7016	RDR-01	1x RDR 2x RDC 1x sets of connectors 1x installation manual (QR)
		RDC-01	1xRDC 1x set of connectors 1x installation manual (QR)

Important Notice:

The RDC contains audio forwarding solid-state non-latching relays. This means that, in the unlikely event of a full RDC failure, the emergency audio from the amplifier and the DC power from the emergency power source to the Loop isolators are still maintained. Broadcast is secured ant the General Fault output is by default 'active'.