

RESONIKS ARK141

Sensor Hub for up to 14 synchronized sensors

The RESONIKS ARK141 is a ruggedized hub for connecting, powering, and time synchronizing up to 14 sensors, e.g. MPK801 Precision Measurement Microphones.

Features

- Connect and synchronize up to 14 sensors
- Sub-100 ns clock synchronization
- Screwable M12 connectors for rigid connection
- Rugged industrial housing (−40°C to 50°C, IP54*)
- Sensor state is shown by LEDs



1 Synchronization

A single ARK141 connects up to 14 synchronized sensors. Sensors synchronize to within 100 ns, enabling coherent capture across a large multichannel set-up.

2 Connectivity & Power

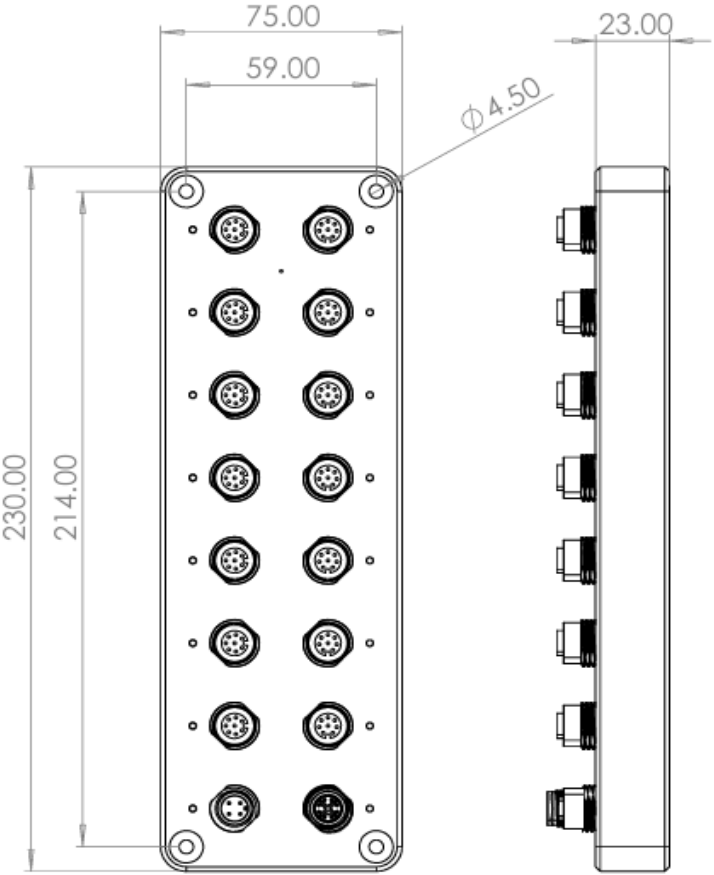
- Fourteen M12 (A-coded, 8-pin, IP67 mated) hybrid connections carrying data and power to connect sensors
- One M12 (X-coded, 8-pin, IP67 mated) connector for ethernet connection
- One M12 (A-coded, 4-pin, IP67 mated) connector for power supply
 - Voltage input 12 – 48 VDC
 - Required Power ≥ 30 W

* Pending confirmation by an accredited independent test laboratory.

3 Mechanical, Mounting & Environmental

Parameters	Value
Dimensions	230 × 75 × 38 mm
Weight	800 g
Housing material	Aluminum
Mounting	M4 screws (4 pcs)
IP rating	IP54*
Operating temperature	-40 °C to 50 °C*
Humidity	Up to 99 % RH, non-condensing*

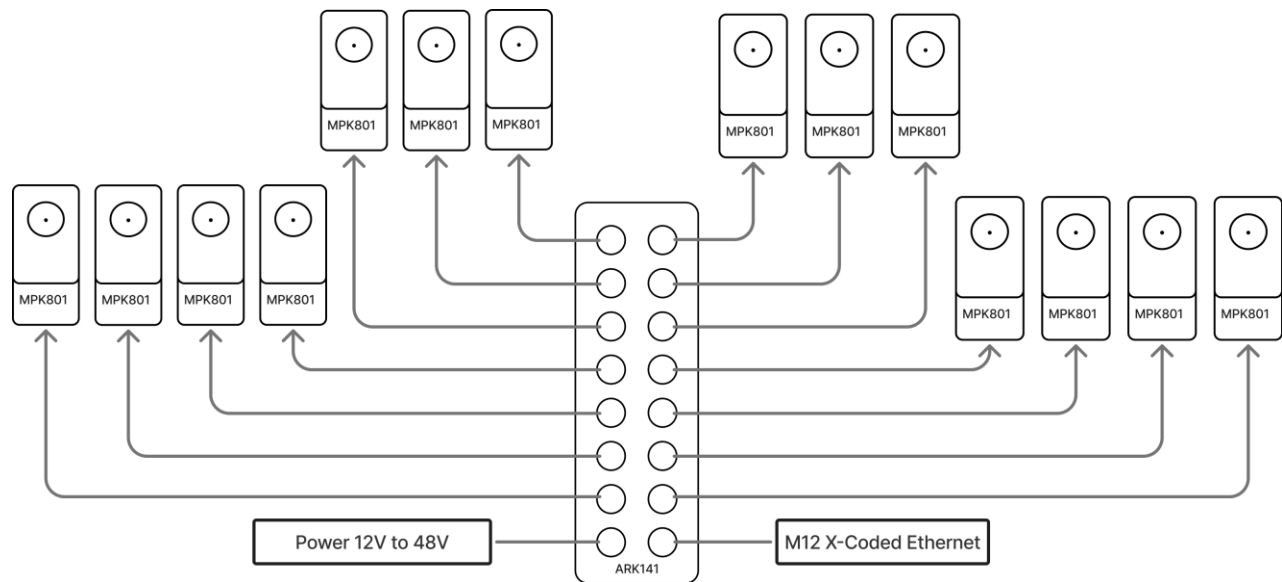
4 Drawing



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5 Wiring Diagrams

- Single ARK141



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