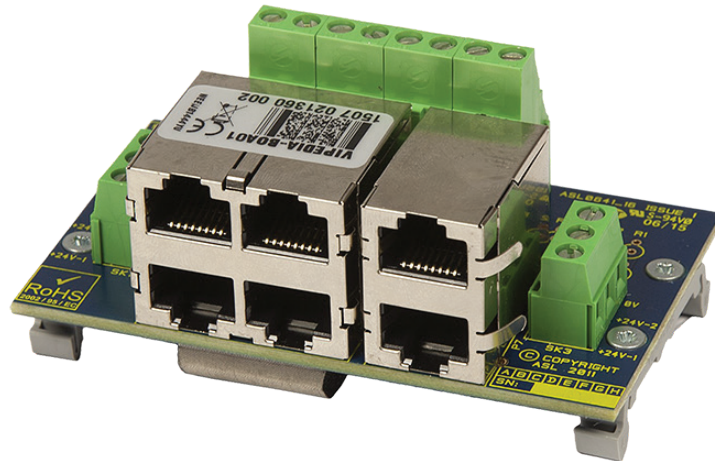# EF-BOA01 (1 port) & EF-BOA02 (4 port) RJ45 Break out adaptors

The EF-BOA01 is a DIN Rail mount RJ45 cable Break Out Adaptor, which has many uses in providing connections from non- RJ45 installation wiring to the EFDAU2000, and to similar equipment with RJ45 connections.

Primary applications of the EF-BOA01

Break out all of the connections from one RJ45 port, to eight screw terminals.

Break out of the two Audio Input connections from each of four EFDAU2000 Audio Input Ports, where the additional data and power connections of the EFDAU2000 Audio Input ports are not required.

Partial break-out of some RJ45 connections, using the daisy chain in-out RJ45 connectors with some signals wired out from the break out terminals and others being passed through on the RJ45 links.

Termination of heavy duty Fire Proof Emergency Microphone installation cables to RJ45 patch leads, in order to enable connection to an EFDAU2000, or similar equipment.

Termination of installation cables which require End of Line Monitoring Resistors to RJ45 patch leads, in order to enable connection to an EFDAU2000, or similar equipment.

Connection of equipment which requires a separate DC power supply to an EFDAU2000 , or similar equipment.

Break out adaptor options

We have two Break Out Adaptors which are suitable for use with the EFDAU2000, the EF-BOA01, and a simpler four way direct through connection adaptor, the EF-BOA02.

Features and benefits

- Din rail mount.
- Flexible connection and usage.
- Break out of all the connections from one RJ45 port, to eight screw terminals plus screen terminals.
- Daisy-chain In-Out RJ45 connectors for multiple break outs and by-pass connections.
- End of line monitoring resistor positions.
- Additional dual redundant power inputs and output power terminals.
- Additional screen connection and output cable screen terminals.

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Specification

RJ45 Connectivity

- Main Connection Port.
- All four pairs of RJ45 signals taken to individual I/O Signal Terminal Pairs.
- The connector screen is taken to the appropriate screen terminal.
- Bypass Connection Port.
- Straight through one to one connections from the Main Connection Port.
- EFDAU2000 Audio Input Connection Ports.
- Ports are each connected to a pair of input terminals

I/O Terminal Connectivity

- Lower Row of I/O Terminals8 Signal Terminals in four pairs, one pair for each twisted pair in the RJ45 cable
- Connections to the RJ45 Ports
- Upper Row of I/O Terminals 8 output power and output cable screen terminals
- Two +24V output terminals, two 0V terminals, four cable screen terminals
- Power Input Terminals (two pairs of three terminals each)

End of line Resistor Positions

- End of Line resistor positions (4 positions).
- One resistor position across each pair of digital input.
- Used for Fire Panel connection supervision.

Dimensions

	H (mm)	W (mm)	D (mm)	Weight
Overall Dimensions	33	88	52/0.1 kg	0.1 kg

The RJ45 cables will overhang the side of the EF-BOA, adding approximately 50mm to the effective width

Environmental

Temperature	-20°C to +50°C (storage and operation)
Humidity Range	0% to 93% non-condensing

Eaton order codes

EFDAU2000	1 x Wall mount voice alarm system with capacity for up to 10 amplifier cards
EF-DAU2000-DIN-KIT	Expansion DIN rail and mounting kit
EF-BOA01	RJ45 Break Out Adaptor (single port)
EF-BOA02	RJ45 Break Out Adaptor (four ports)

Further information

Please refer to the EFDAU2000 Manual 25-14401-A
 for further details.

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