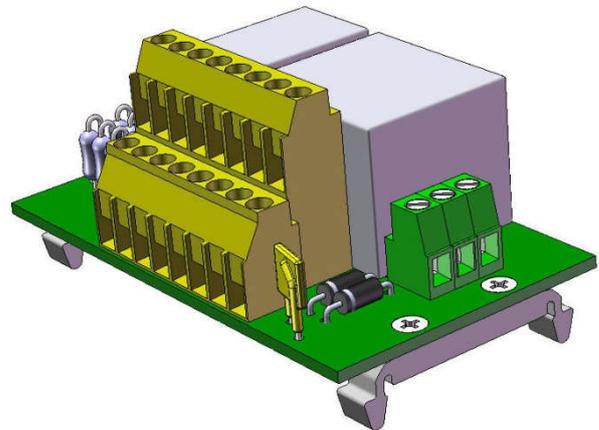


BOA01

RJ45 Break Out Adaptor - Single Port - With Terminations

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



The BOA01 is a DIN Rail mount RJ45 cable Break Out Adaptor, which has many uses in providing connections from non-RJ45 installation wiring to ASL VIPEDIA-12 IP Audio routers, and to similar equipment with RJ45 connections.

The primary applications of the BOA01 are:

- 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 VIPEDIA-12 Audio Input Ports, where the additional data and power connections of the VIPEDIA-12 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 a VIPEDIA-12 IP Audio Router, or similar equipment.
- Termination of installation cables which require End of Line Monitoring Resistors to RJ45 patch leads, in order to enable connection to a VIPEDIA-12 IP Audio Router, or similar equipment.
- Connection of equipment which requires a separate DC power supply to a VIPEDIA-12 IP Audio Router, or similar equipment.

Datasheet

ASL Document Ref.: ASL_Datasheet_BOA01_V04.docx
Issue: 04 Complete / Approved 20/04/22

SPECIFICATION

RJ45 Connectivity

Main Connection Port..... Screened RJ45 8 way
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..... Screened RJ45 8 way
Straight through one to one connections from the Main Connection Port

VIPEDIA-12 Audio Input Connection Ports 4 off Screened RJ45 8 way
The Audio signals pairs to each of the four VIPEDIA-12 Audio Input Ports are each connected to a pair of input terminals

I/O Terminal Connectivity

Lower Row of I/O Terminals 8 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
Three terminals in two triples either side of the BOA, for connection to adjacent BOAs along the DIN Rail
Each triple has dual +24V Inputs and one 0V Input, +ve Inputs connected to cable Power Output terminals via Diodes
+ve Power Outputs can be protected by a resettable fuse

End of line Resistor Positions

End of Line Resistor positions 4 Resistor Positions
One resistor position across each pair of VIPEDIA-12 Digital input Connections
For Fire Panel Connections which are monitored by the Remote Fire Panel as Sounder Reversal Circuits
If to be used then resistor positions are required to be fitted with appropriate resistor values

Dimensions

Overall Dimensions (H x W x D) / Weight 33 mm x 88 mm x 52 mm / 0.1 kg
The RJ45 cables will overhang the side of the 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

Product Part Codes

BOA01 RJ45 DIN TERMINAL BREAKOUT ADAPTOR – SINGLE PORT – WITH TERMINATIONS

Alternative Product Part Codes

BOA02 RJ45 DIN TERMINAL BREAKOUT ADAPTOR – FOUR PORT – WITH TERMINATIONS



This equipment is designed and manufactured to conform to the following EC standards:

EMC: EN55103-1/E1, EN55103-2/E5, EN50121-4, ENV50204

Safety: EN60065

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