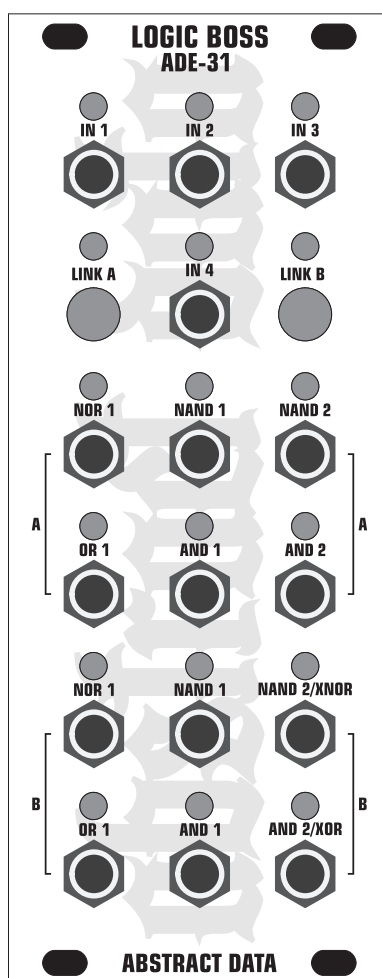




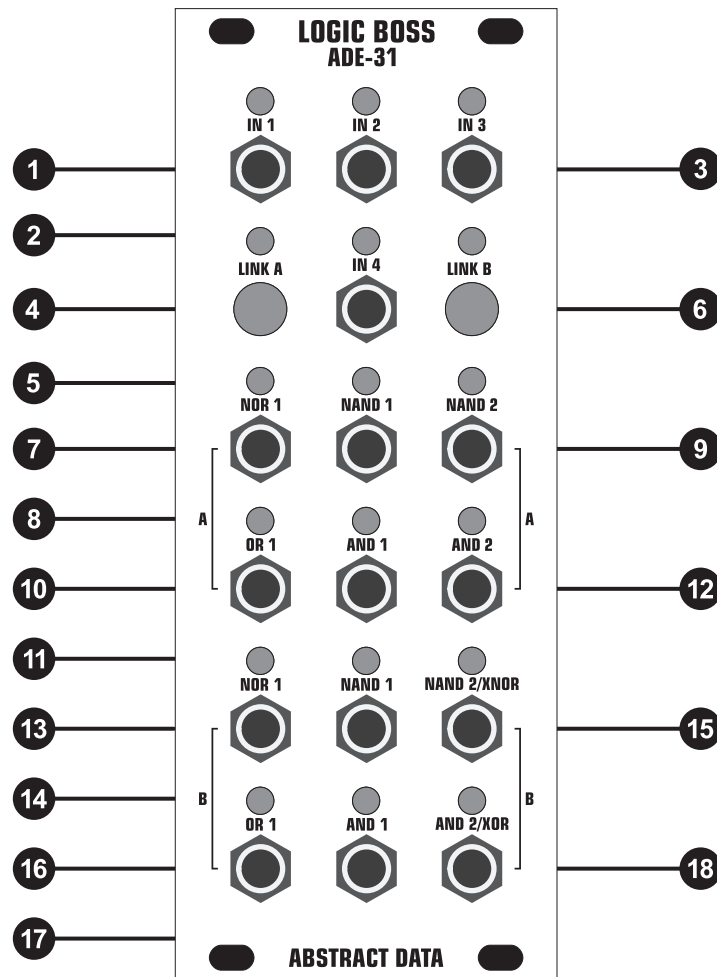
ADE-31 LOGIC BOSS

2 stage, Switched, Cascading, Logic Module



USER GUIDE

1: Front



- | | | |
|----|--------------|--|
| 1 | IN 1: | Input 1 for stage A, NOR 1 and NAND 1 |
| 2 | IN 2: | Input 2 for stage A, NOR 1 and NAND 1 |
| 3 | IN 3: | Input 1 for stage B, NOR 1 and NAND 1 |
| 4 | LINK A: | Manual link switching for input 2 stage B, NOR 1 |
| 5 | IN 4: | Input for voltage-controlled switching of link A and B |
| 6 | LINK B: | Manual link switching for input 2 stage B, NAND 1 |
| 7 | NOR 1 | Output for NOR gate 1, Stage A |
| 8 | NAND 1: | Output for NAND gate 1, Stage A |
| 9 | NAND 2 | Output for NAND gate 2, Stage A |
| 10 | OR 1: | Output for OR gate 1, Stage A |
| 11 | AND 1: | Output for AND gate 1, Stage A |
| 12 | AND 2: | Output for AND gate 2, Stage A |
| 13 | NOR 1: | Output for NOR gate 1, Stage B |
| 14 | NAND 1: | Output for NAND gate 1, Stage B |
| 15 | NAND 2/XNOR: | Output for NAND gate 2 OR XNOR gate 1, Stage B |
| 16 | OR 1: | Output for OR gate 1, Stage B |
| 17 | AND 1: | Output for AND gate 1, Stage B |
| 18 | AND 2/XOR: | Output for AND gate 2 or XOR gate 1, Stage B |

OVERVIEW:

2 stage, switched, cascading, logic module
Up to 4 inputs & 12 outputs – simultaneously
Unlinking gives 2 independent 6 part stages
Link stages by CV & on-board switching
RTL works on all input types – not just logic
LED indicators for all inputs & outputs
Power supply reverse-voltage protection
Low-profile build mounts in any depth rack

STAGE A:

- 1: **NOR 1:**
2x input (IN 1 / IN 2)
- 2: **NAND 1:**
2x input (IN 1 / IN 2)
- 3: **NAND 2:**
2x input (OR 1[A] / NAND 1[A])
- 4: **OR 1:**
1x input (NOT(NOR 1[A]))
- 5: **AND 1:**
1x input (NOT(NAND 1[A]))
- 6: **AND 2:**
1x input (NOT(NAND 2[A]))

STAGE B:

- 7: **NOR 1:**
2x input (IN 3 / Link A state (AND2[A] or Low))
- 8: **NAND 1:**
2x input (IN 3 / Link B state (AND2[A] or Low))
- 9: **NAND 2 (Unlinked):**
2x input (OR 1[B] / NAND 1[B])
XNOR (Linked):
3x input (OR 1[B] / NAND 1[B] / IN 3)
- 10: **OR 1:**
1x input (NOT(NOR 1[B]))
- 11: **AND 1:**
1x input (NOT(NAND 1[B]))
- 12: **AND 2: (Unlinked)**
1x input (NOT(NAND 2[B]))
XOR: (Unlinked)
1x input (NOT(XNOR))

PRECAUTIONS:

The ADE-31 uses the Doepfer standard for power connection and cable orientation. The RED stripe on the supplied power cable connects to the NEGATIVE (-12V) rail on the ADE-31 with the RED stripe facing DOWN. This is marked on the back of the ADE-31 PCB as “-12 RED”.

The ADE-31 has diode and polyfuse protection built in but an incorrectly connected cable may still cause damage to the module or the power supply.

The rear panel of the ADE-31 has exposed parts and connections. Please ensure when handling the ADE-31 that the unit is held by the sides of the front panel or the sides of the PCB.

CREDITS:

Rory Dow
Dave White