Abstract Data — ADE-33 Event Boss

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ADE-33 EVENT BOSS – CHEAT SHEET

Rhythm and Pattern Creation and Manipulation Module
By Abstract Data Ltd. – v1.0.1

Quick Reference Panel Functions

BUTTONS & CONTROLS

Control	Function
MODE SELECT	Click: Cycle forward Local/Global Modes Double-Click: Cycle backward Hold: Edit
GATE A1/A2 SELECT	Click: Toggle between IN: GATE A1 and A2 Double-Click: Toggle backward Hold: Edit

INDICATORS

Indicator	Meaning
MODE LEDs 1-6	Selected Local (or Global) Mode
A1/A2 SELECT LED 1-2	Displays active input (A1 or A2)
OUTPUT LED	Shows output status (On = High/+5V, Off = Low/0V)

INPUT / OUTPUT JACKS

Jack	Full Name	Function	Voltage Range
IN: MODE SELECT/ RESET	Mode Select / Count Reset	Event: Steps thru Local Modes; CV: Jumps by voltage	0 to +5V
IN: GATE A1	Event Input A1	Event input for all modes	0 to +5V
IN: GATE A2	Event Input A2	Event input for all modes	0 to +5V
IN: GATE B/CV	Event or CV Input	Event/CV input, function varies by Global Mode	0 to +5V
OUT	Output	Gate/trigger or clock signal output	0 to +5V

OPERATION ESSENTIALS

GLOBAL & LOCAL MODES

- **6 Global Modes** (e.g. Variables, Multiples, Probability, Logic, Phase, Gates)
- **Each Global Mode has 6 Local Modes** (36 total)
- Mode select by holding both buttons until GLOBAL LED flashes → Change Global → Hold both to exit.
  Then use MODE SELECT button to change Local Mode.

INPUT HANDLING

- **Events:** Clocks, gates, triggers, square/PWM-LFO or similar
- **CV Input:** Any 0–5V CV source such as LFO, envelope, offset, etc.
- Most algorithms respond to non-square LFOs or variable CV for dynamic rhythmic changes
- **Output:** High = +5V, Low = 0V

MODE OVERVIEW

Global Mode	Theme	CV/Function Highlights
1. Variables	Variable Rhythmic Patterns	CV sets (1-8): pattern pass/block variations
2. Multiples	Clock Division/Multiplication	CV sets division/mult (1-12): output tempo scales
3. Probability	Random/Chance pattern variations	CV = percentage chance, probability, tie, coin flip
4. Logic	Logic Functions (AND, OR, XOR etc)	Dual event logic, switch with CV/A1/A2

Global Mode	Theme	CV/Function Highlights
5. Phase	Phase/Delay/Swing	CV sets phase offsets or mark/space ratios
6. Gates	Gate/Trigger Manipulation	Extend, hold, alternate gate logic

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MODE SHORTCUT REFERENCE

Global Mode 1: Variables

- **CV @ IN: GATE B/CV:** Sets variable (1-8)
- Patterns: nth Pass, nth Block, n Pass, n Block, toggles

Global Mode 2: Multiples

- **CV @ IN: GATE B/CV:** Sets division/mult (1-12)
- Modes: Divide /1, Multiply /1, Divide /2, Multiply /2, Divide /3, Multiply /3

Global Mode 3: Probability

- **CV @ IN: GATE B/CV:** 0–5V for 0–100% probability
- Modes: Pass chance, Block chance, Tie/Pass, Flip-Flop, Inversion

Global Mode 4: Logic

- **IN: GATE A1/A2** + **IN: GATE B/CV**: Standard two-input Boolean Logic (AND, NAND, OR, NOR, XOR, XNOR)
- **Global Event:** Mutes output

Global Mode 5: Phase

- **CV @ IN: GATE B/CV:** Sets phase offset (quantized, %, ms)
- Modes: Phase-shift or alter mark/space ratio by CV

Global Mode 6: Gates

- **CV @ IN: GATE B/CV:** Pattern length/gate logic threshold (1-8 steps or 2.5V logic)
- Modes: n High, n High/Low, Logic Pass/Hold, toggles

POWER

- **10-16 pin ribbon, RED stripe = -12V**
- Doepfer standard; 53mA (+12V), 35mA (-12V)

PATCH FLOW EXAMPLES

Clock in A1 → OUT to Envelope = rhythmic gate

CV in GATE B/CV = pattern/swing/logic/randomness by mode

Second clock in A2 = logic and complex rhythm modes

MODE SELECT input/CV = step through/switch patterns

PDF Manual

ADE-33 User Guide

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