

# Shakmat – Time Wizard

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- [Manual PDF](#)

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[Official Manual PDF](#)

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## Shakmat Time Wizard – Cheat Sheet

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### Overview

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- **8 HP** digital clock divider and logic module for Eurorack
- **6 dividers** (A1-A3, B4-B6), each with activity LED and selectable division settings
- **4 three-way switches** for advanced signal routing, multiplicative/divider logic, and resets
- Enables creation of polyrhythms, odd time signature sequences, and complex clocking

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### Inputs & Outputs Reference

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Label	Type	Description	Voltage Range
CLK (1)	Input	Main clock input	0–5V trigger
RST/IN B (2)	Input	Reset input (default) or independent clock for B	0–5V trigger

Label	Type	Description	Voltage Range
A1, A2, A3 (E-G)	Output	Dividers 1–3 outputs (activity LED)	0–5V trigger
B4, B5, B6 (H-J)	Output	Dividers 4–6 outputs (activity LED)	0–5V trigger

**Outputs 5 & 6 can optionally output half-period gates** (jumper on back).

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## Front Panel Controls

Control	Function
<b>A. Multiply A</b>	Multiplies clock to A1-A3 by $\times 3$ or $\times 4$ (upper = off)
<b>B. Clock B</b>	Selects clock source for B4-B6: <ul style="list-style-type: none"> <li>Upper: normal (same as main clock)</li> <li>Mid: B4 clocks B5/B6 (chained)</li> <li>Lower: RST/IN B (2) is independent clock for B4-B6</li> </ul>
<b>C. Logic A2</b>	Adds logic to A2 output: <ul style="list-style-type: none"> <li>Upper: off</li> <li>Mid: A2 AND B5</li> <li>Lower: A2 OR A3</li> </ul>
<b>D. Reset B6</b>	B6 resets: <ul style="list-style-type: none"> <li>Upper: off</li> <li>Mid: resets A1-A3</li> <li>Lower: resets all dividers</li> </ul>

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# Usage Guide

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## Basic Operation

1. Connect your clock (0–5V) to **CLK IN [1]**.
2. Use **A1-A3** and **B4-B6** outputs for divided clock signals. Division ratios set by potentiometers.
3. Optionally connect **RST/IN B [2]** to externally reset all dividers.

## Advanced Modes (Switches)

- **Multiply A:** Multiplies main clock for A channel (A1-A3) by 3 or 4 for complex decompositions (e.g., triplets, odd divisions).
- **Clock B:** Lets you:
  - Chain divisions (B4→B5→B6)
  - Use a different clock for B4-B6 (independent rhythms/ polyrhythms)
- **Logic A2:**
  - Create composite rhythms with A2 & B5 (half periods) or A2 | A3 (sequencing tricks)
- **Reset B6:**
  - Use B6 as a reset signal for A only or both sections for structured patterns.

## Back Panel Jumper

- Activates “half-period gates” (longer gates instead of triggers) for B5 & B6 outputs.

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## Electrical Specs

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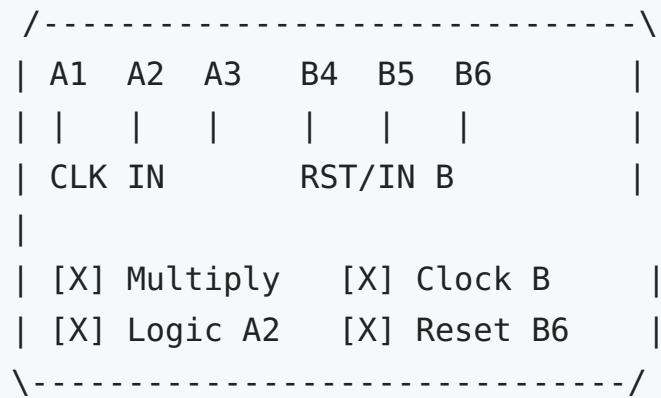
Power	20mA @ +12V, 0mA @ -12V, 0mA @ +5V
Signals	Inputs & outputs: 0–5V trigger

Power	20mA @ +12V, 0mA @ -12V, 0mA @ +5V
Depth	22 mm

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## Quick Reference Diagram

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## Useful Links

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- [Official Manual PDF](#)
- [Generated With Eurorack Processor](#)