

Qu-Bit – Chord

- [Manual PDF](#)
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[Chord v2 Manual PDF](#)

Chord v2 Eurorack Module – Quick Cheat Sheet

A fast guide with references for all controls, inputs, and outputs, including essential tips and voltage ranges.

Overview

- **Polyphonic oscillator:** 4 voices, various chord qualities, inversions, custom/user chords & wavetables.
 - **Modes:** Chord (diatonic), Free Poly (independent), and Unison Poly.
 - **Waveform sources:** 8 internal banks + user wavetable via SD card.
 - **Voltage control:** All parameters via knob & -5V to +5V CV (unless noted).
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Front Panel Reference

#	Label	Type	Description	Voltage Range / Notes
1	frequency	Knob	Root note pitch (Coarse: 7 octaves / Fine: +/- P4)	-
2	bank	Knob	Select waveform bank	-5V to +5V CV
3	waveform	Knob	Select/blend waveform within bank	-5V to +5V CV
4	linear fm	In + At.	FM input + attenuator	-
5	voicing	Knob	Chord inversion/octave spacing	-5V to +5V CV
6	quality	Knob	Chord type (Maj, min, 7th, dim, sus etc)	-5V to +5V CV
7	mode	Btn+LED	Chord/Free Poly/Unison Poly/Melody (blue/green/teal)	(see Modes below)
8	harm	Btn+LED	Auto-harm/Quantize major/minor/chromatic/off	(blue/green/teal/off)
9	triad	Btn+LED	Mix out 7th omit/included	LED blue = 7th omitted
10	v/oct	In	1V/oct input (root pitch)	0V–5V
11	lead	In	1V/oct or independent voice (Mode-dependent)	0V–5V

#	Label	Type	Description	Voltage Range / Notes
12	root	Out	Chord root audio out	Audio
13	third	Out	Chord third audio out	Audio
14	fifth	Out	Chord fifth audio out	Audio
15	seventh	Out	Chord seventh audio out	Audio
16	mix	Out	Summed audio (all, or omits 7th via triad button)	Audio

Modes (Mode Button & LED)

- **Chord (LED off):** Serial control, classic chord behavior.
 - **Melody (LED blue):** 'lead' input controls an independent 7th melody.
 - **Free Poly (LED green):** Each voice is fully independent, separate pitch input per voice.
 - **Unison Poly (LED teal):** All oscillators tune together but have separate 1V/oct inputs for each voice.
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Auto-Harm/Quantize (Harm Button & LED)

- **Off:** No quantization.
 - **Blue:** Major scale quantize.
 - **Green:** Minor scale quantize.
 - **Teal:** Chromatic quantize (Poly modes only).
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Creating & Saving User Chords

- **Access:** Hold Harm for 3s → Quality knob selects user chord.

- **Edit:** Hold *Harm*, press *Mode* (in user chord mode) → Adjust chord with knobs; *Mode* btn to save.
 - **SD Chord File:** CHORD_#=x,y,z (semitone intervals for 3rd, 5th, 7th).
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User Wavetables

- **Load:** Hold *Mode* for 3s → switches factory/custom banks (SD card needed).
 - **Format:** 32kB mono .wav (created in WaveEdit: 256 samples, 64 waves).
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Calibration

- Enter calibration: Hold *Triad* for 3s, follow LED/jack prompts (+1V/+3V for 1V/oct calibration steps).
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Reference Tables

Voicings Table Highlights

- **17 Voicing positions** (various closed/dropped/raised/spread intervals, see appendix for all).

Chord Qualities

- **Major 7:** 3rd: +4st, 5th: +7st, 7th: +11st
 - **Minor 7:** 3rd: +3st, 5th: +7st, 7th: +10st
 - **Dominant 7:** 3rd: +4st, 5th: +7st, 7th: +10st
 - **Half Dim, Dim, Sus, Aug, etc...** (see manual)
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Typical Patches

- **Chord drone:** Just audio out from Mix—or all outputs muted!
 - **Sequenced chords:** Use V/Oct input from sequencer/external controller.
 - **Independent voices:** Use Free Poly mode and separate 1V/Oct inputs for each.
 - **Melody over chord:** Melody mode, use Lead cv input for top voice.
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Tips

- All CV inputs: **Bipolar, -5V to +5V, summed with knob**
 - Digital wave morphing: Smooth blending, CV or knob sweep.
 - SD card slot: For custom chords, wavetables, and configuration.
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[Full Manual PDF Link](#)

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