Pittsburgh Modular — Taiga Desktop

- Manual PDF

Taiga Desktop Electronic Musical Instrument Manual V2.0 (PDF)

Pittsburgh Modular Taiga Eurorack Module Cheat Sheet

A powerful all-in-one semi-modular analog synthesizer voice with deep MIDI integration, three complex oscillators, mixers, multi-mode filter, dual ADSR, VCA/dynamics, analog delay, and utility modules. Fully eurorack compatible; all internal connections can be overridden via patch cables.

Power & Setup

- **Power**: 16-pin Eurorack ribbon, connects to standard +/-12V. **650mA (+12V), 475mA (-12V)**
- **Don't hot-plug**: Always power off your case before plugging/unplugging.
- **-12V stripe line up required**.
- **All connections (except MIDI):** 3.5mm mono jacks; MIDI uses 1/8" TRS to DIN adapter.

Panel Controls & Sections

All button edits: Hold [Edit] to access secondary (yellow-labeled) button features.

Main Sections:
- Control (MIDI/CV, clock, arp, mod tools) - 3 Oscillators (complex analog, waveshaping) - Dual Mixer / Preamp - Utilities (LFO, noise, S&H, splitter/mixer) - Multimode Filter (analog state-variable: LP/BP/HP/Notch) - Dual ADSR - Dynamics (VCA/LPG/Pluck) - Analog Delay (BBD) - Output

Knobs & Buttons Reference

Function	Knob/Button	Section
Glide	1	Control
Clock	2 (Button), 3 (LED)	Control
ARP/Seq	4 (LED), 5 (Button)	Control
Octave Up/Down	8,9,10,11	Control
Edit	12 (Button)	Control
Osc Pitch, Shape, FM, Shape CV	13-16,22,23-26,32,33-36,42	Oscillator
Osc Seed (waveform select)	21,31,41	Oscillator
Mixer Ch 1-4, Preamp Gain/Level	43-48	Mixer/Preamp
LFO Rate	49	Utility
Filter Freq, Res, Mode, CV1/CV2	51-58	Filter
ADSR (A, D, S, R) 1 & 2	59-63, 64-68	ADSR
Dynamics knobs (Resonance, Response, Mode, CV, LPG, Pluck)	69-78	Dynamics

Function	Knob/Button	Section
Output Volume	79	Output
Delay (Time, Regen, Mix, Time CV)	80-83	Echos

Jacks Reference (Numbers refer to illustrated panel in manual)

Control

- **84. Control Clock In/Out**: Input/output, 0V=off, 5V=on (CV/gate).
- **85. MIDI Input**: Type A 1/8" TRS MIDI in.
- **86. Control Pitch Output**: 1V/oct CV out, 0–5V
- **87. Control Gate Output**: 0/5V gate
- **88. Control Velocity Output**: 0–5V velocity/paraphonic/random
- **89. Control CC/Mod Output**: 0–5V from chosen MIDI CC, LFO, etc.

Oscillators 1/2/3

Input/Output	Function	Voltage
Pitch In (90, 96, 102)	1V/oct CV in	0–5V(?) CV
Shape CV In (91, 97, 103)	For wavefolder	0–5V CV
FM In (92, 98, 104)	Linear FM	Audio-rate
Sync In (94, 100, 106)	Reset/hard sync	Any pulse
Sine Out (93, 99, 105)	Clean sine	Audio
Audio Out (95, 101, 107)	Shaped output	Audio

Mixer/Preamp

Input/Output	Jack No	Notes
Mixer Ch 1–4 In	112-115	Normaled to Oscs 1–3, noise
Mixer 1+2 Out	116	Sends Ch 1+2 summed
Mixer Out	117	Master sum (preamp in norm)
Preamp In	108	For external/excess signal
Preamp Out	109	Soft clip, normaled to Mixer Out

Utilities

Input/Output	Jack No	Notes
LFO Triangle Out	110	±5V
LFO Square Out	111	±5V
Noise Out	119	±5V, white-pink
S&H Sample In	118	Normaled to noise
S&H Hold In	120	Normaled to clock
S&H Out	121	As sampled (CV/Audio)
Mixer/Splitter In 1/2	130,132	Unity mix/buff split
Mixer/Splitter Out 1/2	131,133	Unity mix/buff split

Filter

Input/Output	Jack No	Voltage
Freq CV 1 (attenuator)	122	Bi-polar, ±5V
Freq CV 2 (attenuverter)	124	Bi-polar, ±5V
Audio In	123	Normaled to mixer
Audio Out	125	Audio

ADSR (x2)

Input/Output	Jack No	Voltage
Gate In	126/128	Trigger/Gate
Envelope Out	127/129	0–10V

Dynamics

Input/Output	Jack No	Voltage
CV In	134	Amplitude CV; 0–10V
Resp. CV In	136	Decay/response; ±5V
Audio In	135	Normaled filter out
Audio Out	137	Audio out

Delay (Echos)

Input/Output	Jack No	Voltage
Time CV In	140	±5V or ±10V
Audio In	138	Normaled to dynamics out
Audio Out	139	Audio

Output

Input/Output	Jack No	Voltage
Input	141	Normaled to delay out
Main Out	142	Line-level mono
Headphones Out	143	Stereo (mono L/R)

Voltage Ranges (by function):

- **Gate signals**: 0V (off), +5V (on)
- **Pitch (1V/oct)**: 0–5V (standard)
- **ADSR Out**: 0–10V
- **LFO/Mods**: ±5V
- **Velocity/CC/Mod**: 0–5V
- **Mixer, Filter, Dynamics, Delay**: standard modular audio; can soft clip
- **Filter/Dynamics CV inputs:** ±5V preferred for bi-polar/ attenuverters

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Panel Labeling Quick Reference

- **Green**: CV/audio input jacks
- **White**: output jacks, primary button functions
- **Yellow**: secondary (Edit) button hold functions

Digital Function Shortcuts

- **Arpeggiator, Sequencer, Hold, Octave Shift**: see section 5 for [Edit Button] + combo cheats
- **Random/Clocked parameters**: Hold Seed or Filter Mode + [Clock] for random cycles
- **Paraphonic Mode**: Use Vel out to Pitch in, calibrate as per sec 15
- **Factory Reset**: Hold [Oct Up] + [Oct Down] + [Dynamics Mode] for 5 seconds

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Notable Defaults / Normalings

- MIDI→Oscs, Arp, Velocity, Gate via internal (can disable per module)
- Mixer feeds filter, filter→dynamics, dynamics→delay, delay→out
- All major CV ins normaled to internal mod sources (LFO triangle, ADSRs, etc), overridden when patched

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Patch Examples

- **Basic Subtractive Voice**: Use default internal routing, play from MIDI
- **West Coast**: Patch Velocity out to Osc Pitch, patch S&H/noise/random to modulation ins, LPG mode in dynamics
- **Feedback/Overload**: Patch Output or Preamp out back into Mixer/Preamp in for wild timbral effects

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Useful Links

- Taiga Manual PDF
- Generated With Eurorack Processor