## Holger Wurtz MicroDexed





rgal 1 Kong (## FLUTE 1 VIBE 1 Abbawar



## Introduction

This EFX is a port of the <u>MicroDexed</u> originally created for the Teensy, which was a port of <u>Dexed</u>, a multi-platform synthesizer based on the Yamaha DX7.

The DX7 is the quintessential 1980s FM synth and was used on countless albums and sound tracks from that era.

For the most up to date descriptions of each EFX control, please see the descriptions by rightclicking on the EFX from the Effect Library in the Designer application.

## **DX7 Patches**

The DX7 engine uses binary patches to program the FM synthesis engine. The original Yamaha synthesizer used ROM cartridges to provide different patches.

The MicroDexed project for Teensy curated 10 cartridges, each with 32 voices. Please note there is overlaps between these cartridges and some voices are repeated or very similar.

Since those 320 patches are a bit much to navigate, for the Multiverse port is a subset that has been curated further and organized into categories. These are the instrument knobs shown in the GUI, and you can use the INST. SEL knob to chose which category is active.

A special EXTRA category is provided for one of the famous FineTails collection.

However, you can still access all 320 patches from the original MicroDexed project by accessing the hidden controls in the EFX UI. Change the viewing mode from GFX to ALL by clicking on the button and look for the controls "Bank Select" and "Voice Select".

You can select the ROM cartridge from 1 to 10 with Bank Select, and the activated voice from 1 to 32 with Voice Select.

To help you figure out what the sounds are, a (long) list of the full catalog is provided below. Enjoy!

## 320 Voice Catalog

## NOTE: voice IDs here range from 0 to 31, so add 1 to get the voice

## ID in the range 1 to 32 used by the Voice Select knob.

#Bank 1 - RitCh1.syx v:4 -> Steinway

v:0 -> FM-Rhodes v:5 -> Korg CX3 (Synth)

v:1 -> FM-Rhodes2 v:6 -> Leadharp (Synth, Strings)

v:2 -> Meinecke v:7 -> Synclavier (Synth)

v:3 -> CCCP-70 v:8 -> ELEC VANG

v:9 -> FATSO. RT. (Synth)	v:6 -> CORNET HS
v:10 -> FATSYNTH A	v:7 -> CP 9O
v:11 -> JUPITER 1	v:8 -> B-R-ASS 1 (Brass)
v:12 -> JUPITER 8 (Synth)	v:9 -> BASS 1 (Bass)
v:13 -> Jupiter	v:10 -> SCHMIDT 2
v:14 -> ANALOG 2	v:11 -> FUNK-RHYT. (Synth)
v:15 -> JUNO 106 6 (Synth, maybe)	v:12 -> KLA5 HS (Synth)
v:16 -> ALG.2. RT.	v:13 -> D 5-6 (Plucked)
v:17 -> Mooger Low (Percussive synth)	v:14 -> CLIC HS (Organ)
v:18 -> Soft-Moog	v:15 -> JUMP 3
v:19 -> Mooger	v:16 -> ORGEL 1 (organ)
v:20 -> Mini-Moog (Synth)	v:17 -> B 3 ORGAN
v:21 -> Mini-Moog2	v:18 -> PIANO 2
v:22 -> Moog Strng	v:19 -> BREAK FREE
v:23 -> ANASTRINGS	v:20 -> BASCHMIDT (Bass)
v:24 -> ANALOG 1	v:21 -> RHODES1 RH
v:25 -> ANALOG	v:22 -> RHODES 2
v:26 -> Horn+Str.	v:23 -> HOHNER D 6
v:27 -> St Pad 4c (Synth)	v:24 -> SYNTH R.T. (Synth)
v:28 -> St Pad 5c	v:25 -> STRING SYN
v:29 -> STRINGS M2	v:26 -> FANFARE H1
v:30 -> SAMPLESTRG	v:27 -> JUNK (Strings)
v:31 -> MID.STRG B	v:28 ->OBERHEIM (Strings)
	v:29 -> CHOIR. (Choir/Vocal)
#Bank 2 - RitCh2.syx	v:30 -> BRS.STRS. (Brass)
v:0 -> HORNS 5A W (Synth)	v:31 -> LAAZCHRD1 (Synth)
v:1 -> 80 F (Synth)	
v:2 -> 8RASS 3 (Brass)	#Bank 3
v:3 -> JUMP	v:0 -> BRASS 1
v:4 -> JUMP 2SENS	v:1 -> BRASS 2 (Synth)
v:5 -> FLUTE 1 (WIND)	v:2 -> BRASS 3

v:3 -> STRINGS 1	v:0 -> PIANO 4
v:4 -> STRINGS 2	v:1 -> PIANO 5
v:5 -> STRINGS 3	v:2 -> E.PIANO 2
v:6 -> ORCHESTRA (Synth)	v:3 -> E.PIANO 3
v:7 -> PIANO 1	v:4 -> E.PIANO 4
v:8 -> PIANO 2	v:5 -> PIANO 5THS
v:9 -> PIANO 3	v:6 -> CELESTE (Bells)
v:10 -> E.PIANO 1	v:7 -> TOY PIANO
v:11 -> GUITAR 1 (Plucked)	v:8 -> HARPSICH 2
v:12 -> GUITAR 2	v:9 -> HARPSICH 3
v:13 -> SYN-LEAD 1 (Synth)	v:10 -> CLAV 2
v:14 -> BASS 1 (repeat)	v:11 -> CLAV 3 (Synth)
v:15 -> BASS 2 (Bass)	v:12 -> E.ORGAN 2
v:16 -> E.ORGAN 1	v:13 -> E.ORGAN 3
v:17 -> PIPES 1 (Wind)	v:14 -> E.ORGAN 4
v:18 -> HARPSICH 1	v:15 -> E.ORGAN 5
v:19 -> CLAV 1	v:16 -> PIPES 2
v:20 -> VIBE 1 (Bells)	v:17 -> PIPES 3 (Pipes)
v:21 -> MARIMBA (Percussion)	v:18 -> PIPES 4 (Pipes)
v:22 -> KOTO (Synth)	v:19 -> CALIOPE
v:23 -> FLUTE 1	v:20 -> ACCORDION (Synth)
v:24 -> ORCH-CHIME	v:21 -> SITAR (Synth)
v:25 -> TUB BELLS (Bells)	v:22 -> GUITAR 3
v:26 -> STEEL DRUM (Percussion)	v:23 -> GUITAR 4
v:27 -> TIMPANI (Percussion)	v:24 -> GUITAR 5
v:28 -> REFS WHISL	v:25 -> GUITAR 6
v:29 -> VOICE 1 (Choir/Vocal)	v:26 -> LUTE
v:30 -> TRAIN	v:27 -> BANJO
v:31 -> TAKE OFF	v:28 -> HARP 1
	v:29 -> HARP 2 (Synth)
#Bank 4	v:30 -> BASS 3

v:31 -> BASS 4 (Bass)	v:28 -> COW BELL (Percussive)
	v:29 -> BLOCK (Percussive)
#Bank 5	v:30 -> FLEXATONE
v:0 -> PICCOLO	v:31 -> LOG DRUM (Percussive)
v:1 -> FLUTE 2	
v:2 -> OBOE (Winds)	#Bank 6
v:3 -> CLARINET (winds)	v:0 -> SYN-LEAD 2
v:4 -> SAX BC	v:1 -> SYN-LEAD 3 (Synth)
v:5 -> BASSOON	v:2 -> SYN-LEAD 4 (Bass)
v:6 -> STRINGS 4	v:3 -> SYN-LEAD 5
v:7 -> STRINGS 5	v:4 -> SYN-CLAV 1
v:8 -> STRINGS 6	v:5 -> SYN-CLAV 2
v:9 -> STRINGS 7	v:6 -> SYN-CLAV 3 (CRAZY!)
v:10 -> STRINGS 8	v:7 -> SYN-PIANO
v:11 -> BRASS 4	v:8 -> SYNBRASS 1
v:12 -> BRASS 5 (Brass)	v:9 -> SYNBRASS 2 (Synth)
v:13 -> BRASS 6 BC	v:10 -> SYNORGAN 1
v:14 -> BRASS 7 (Brass)	v:11 -> SYNORGAN 2
v:15 -> BRASS 8	v:12 -> SYN-VOX (Winds)
v:16 -> RECORDER (Winds)	v:13 -> SYN-ORCH (Winds)
v:17 -> HARMONICA1	v:14 -> SYN-BASS 1
v:18 -> HRMNCA2 BC	v:15 -> SYN-BASS 2
v:19 -> VOICE 2 (Choir/Vocal)	v:16 -> HARP-FLUTE
v:20 -> VOICE 3	v:17 -> BELL-FLUTE (Bell)
v:21 -> GLOKENSPL (Percussive)	v:18 -> E.P-BRS BC
v:22 -> VIBE 2	v:19 -> T.BL-EXPA (Bell, GREAT!)
v:23 -> XYLOPHONE (Percussive)	v:20 -> CHIME-STRG (Bell)
v:24 -> CHIMES	v:21 -> B.DRM-SNAR (Percuss)
v:25 -> GONG 1	v:22 -> SHIMMER
v:26 -> GONG 2 (Synth)	v:23 -> EVOLUTION
v:27 -> BELLS (Bells)	v:24 -> WATER GDN

v:25 -> WASP STING	v:22 -> SYN-LEAD 1
v:26 -> LASER GUN	v:23 -> VOICES BC
v:27 -> DESCENT	v:24 -> CLAV ENS
v:28 -> OCTAVE WAR (Synth)	v:25 -> LASERSWEEP
v:29 -> GRAND PRIX	v:26 -> TUB ERUPT (Bells)
v:30 -> ST.HELENS	v:27 -> GRAND PRIX
v:31 -> EXPLOSION	v:28 -> REFS WHISL
	v:29 -> TRAIN (Percuss GOod)
#Bank 7	v:30 -> BRASS S H (Synth)
v:0 -> FLUTE 1	v:31 -> TAKE OFF
v:1 -> HARPSICH 1	
v:2 -> STRG ENS 1 (Strings, great!)	#Bank 8
v:3 -> BRIGHT BOW (Strings, great!)	v:0 -> PIANO 2
v:4 -> BRASSHORNS	v:1 -> E.GRAND 1
v:5 -> BR TRUMPET	v:2 -> E.GRAND 2
v:6 -> MARIMBA (Percuss, repeat)	v:3 -> HONKY TONK
v:7 -> E.PIANO 1	v:4 -> E.PIANO 2
v:8 -> PIANO 1	v:5 -> E.PIANO 3
v:9 -> PIPES 1 (repeat)	v:6 -> E.PIANO 4
v:10 -> E.ORGAN 1	v:7 -> CELESTE
v:11 -> E.BASS 1	v:8 -> FUNK CLAV
v:12 -> CLAV 1	v:9 -> CLAV ENS 2
v:13 -> HARMONICA1	v:10 -> PERC CLAV
v:14 -> JAZZ GUIT1	v:11 -> HARPSICH 2
v:15 -> PRC SYNTH1	v:12 -> E.ORGAN 2 (Organ)
v:16 -> SAX BC	v:13 -> E.ORGAN 3
v:17 -> FRETLESS 1	v:14 -> 60-S ORGAN (Organ)
v:18 -> HARP 1	v:15 -> PIPES 2
v:19 -> TIMPANI (percuss, repeat)	v:16 -> PIPES 3
v:20 -> HEAVYMETAL	v:17 -> CALIOPE
v:21 -> STEEL DRUM (Pecuss, good)	v:18 -> ACCORDION

v:19 -> TOY PIANO	v:16 -> HIGH STRGS
v:20 -> SITAR	v:17 -> PIZZ STGS
v:21 -> KOTO	v:18 -> STG CRSNDO
v:22 -> JAZZ GUIT2	v:19 -> STGS 5THS
v:23 -> SPANISHGTR	v:20 -> BELLS (repeat)
v:24 -> FOLK GUIT	v:21 -> TUB BELLS (repeat, good)
v:25 -> LUTE	v:22 -> RECORDERS
v:26 -> BANJO	v:23 -> CHIMES (Bells)
v:27 -> CLAS.GUIT	v:24 -> VOICES
v:28 -> HARP 2	v:25 -> XYLOPHONE
v:29 -> E.BASS 2 (Bass)	v:26 -> COWBELL (Percuss, repeat)
v:30 -> FRETLESS 2	v:27 -> WOOD BLOCK (Percuss)
v:31 -> PLUCK BASS (Bass)	v:28 -> FLEXATONE
	v:29 -> LOG DRUM (Percuss, repeat)
#Bank 9	v:30 -> GLOKENSPL
A . DICCOLO	24 × 1/IDE (D. II.)
v:0 -> PICCOLO	v:31 -> VIBE (Bells)
v:0 -> PICCOLO v:1 -> FLUTE 2	v:31 -> VIBE (Bells)
	v:31 -> VIBE (Bells)  #Bank 10
v:1 -> FLUTE 2	<b>,</b> ,
v:1 -> FLUTE 2 v:2 -> OBOE	#Bank 10
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat)	#Bank 10 v:0 -> CLAV-E.PNO
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON v:5 -> PAN FLUTE (Winds)	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS v:2 -> PRC SYNTH2 (Synth)
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON v:5 -> PAN FLUTE (Winds) v:6 -> LEAD BRASS (Synth)	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS v:2 -> PRC SYNTH2 (Synth) v:3 -> HARPSI-STG
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON v:5 -> PAN FLUTE (Winds) v:6 -> LEAD BRASS (Synth) v:7 -> HORNS	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS v:2 -> PRC SYNTH2 (Synth) v:3 -> HARPSI-STG v:4 -> CHIME-STRG
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON v:5 -> PAN FLUTE (Winds) v:6 -> LEAD BRASS (Synth) v:7 -> HORNS v:8 -> SOLO TBONE	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS v:2 -> PRC SYNTH2 (Synth) v:3 -> HARPSI-STG v:4 -> CHIME-STRG v:5 -> HARP-FLUTE
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON v:5 -> PAN FLUTE (Winds) v:6 -> LEAD BRASS (Synth) v:7 -> HORNS v:8 -> SOLO TBONE v:9 -> BRASS BC	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS v:2 -> PRC SYNTH2 (Synth) v:3 -> HARPSI-STG v:4 -> CHIME-STRG v:5 -> HARP-FLUTE v:6 -> BELL-FLUTE
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON v:5 -> PAN FLUTE (Winds) v:6 -> LEAD BRASS (Synth) v:7 -> HORNS v:8 -> SOLO TBONE v:9 -> BRASS BC v:10 -> BRASS 5THS	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS v:2 -> PRC SYNTH2 (Synth) v:3 -> HARPSI-STG v:4 -> CHIME-STRG v:5 -> HARP-FLUTE v:6 -> BELL-FLUTE v:7 -> STRG-CHIME (Synth)
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON v:5 -> PAN FLUTE (Winds) v:6 -> LEAD BRASS (Synth) v:7 -> HORNS v:8 -> SOLO TBONE v:9 -> BRASS BC v:10 -> BRASS 5THS v:11 -> SYNTHBRASS (Brass)	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS v:2 -> PRC SYNTH2 (Synth) v:3 -> HARPSI-STG v:4 -> CHIME-STRG v:5 -> HARP-FLUTE v:6 -> BELL-FLUTE v:7 -> STRG-CHIME (Synth) v:8 -> STRG-MARIM (String)
v:1 -> FLUTE 2 v:2 -> OBOE v:3 -> CLARINET (Repeat) v:4 -> BASSOON v:5 -> PAN FLUTE (Winds) v:6 -> LEAD BRASS (Synth) v:7 -> HORNS v:8 -> SOLO TBONE v:9 -> BRASS BC v:10 -> BRASS 5THS v:11 -> SYNTHBRASS (Brass) v:12 -> STRG QRT 1	#Bank 10 v:0 -> CLAV-E.PNO v:1 -> PERC BRASS v:2 -> PRC SYNTH2 (Synth) v:3 -> HARPSI-STG v:4 -> CHIME-STRG v:5 -> HARP-FLUTE v:6 -> BELL-FLUTE v:7 -> STRG-CHIME (Synth) v:8 -> STRG-MARIM (String) v:9 -> STRG-PIZZT (String)

v:13 -> BRS-CHIME	v:23 -> EVOLUTION
v:14 -> B.DRM-SNAR (Percuss, repeat)	v:24 -> WATER GDN
v:15 -> E.P-BRS BC (Bass)	v:25 -> WASP STING
v:16 -> ORG-BRS BC (Organ)	v:26 -> MULTI NOTE
v:17 -> CLV-BRS BC	v:27 -> DESCENT
v:18 -> WHISTLES (wind)	v:28 -> OCTAVE WAR
v:19 -> FILTER SWP	v:29 ->GOTCHA
v:20 -> FUNKY RISE	v:30 -> ST.HELENS
v:21 -> WILD BOAR	v:31 -> EXPLOSION
v:22 -> SHIMMER	