

# UDO SUPER 6 – MIDI SPECIFICATIONS

## System Real-Time Messages

CC#	Value	Control Function
Timing Clock	Yes	Yes
Start	No	Yes
Stop	No	Yes

## Channel Messages

CC#	Value	Control Function
Note Off	Yes	Yes
Note On	Yes	Yes
Polyphonic Key Pressure	No	Yes
Control Change	See Global Settings (pages 83 – 85)	See Global Settings (pages 83 – 85)
Program Change	See Global Settings (page 83)	See Global Settings (page 83)
Channel Pressure	Yes	Yes
Pitch Bend Change	Yes	Yes

## Channel Messages – Control Change

The table below lists the continuous controller messages (CCs) that are mapped to the controls of the Super 6. These messages are transmitted and/or received dependent on TX/RX E configuration in the global settings (see pages 83 – 84).

CC#	Value	CC#	Value
0	Bank Select	11	-
1	Modulation Lever	12	Delay Time
2	-	13	Delay Feedback
3	Tempo	14	Chorus I On
4	Foot Controller	15	Chorus II On
5	Portamento Time	16	LFO 1 Waveform/HF Mode
6	Data Entry MSB	17	LFO 1 Rate
7	VCA Env Level	18	LFO 1 Delay
8	-	19	LFO 1 L/R Phase
9	-	20	LFO 1 Mode
10	-	21	DDS LFO 1 Amt

<b>CC#</b>	<b>Value</b>
22	DDS Env 1 Amt
23	DDS Modulator Dest
24	Super Mode
25	PW/Detune
26	PWM/SWM
27	PWM/SWM Src
28	Cross Mod
29	DDS 1 Waveform
30	DDS 1 Range
31	DDS 2 Waveform
32	-
33	-
34	DDS 2 Range
35	DDS 2 Tune
36	DDS 2 Mode
37	Oscillator Mix/Split Point
38	LSB for Control 6 (Data Entry)
39	-
40	VCF HPF Mode
41	VCF Drive
42	-
43	VCF Keytrack
44	VCF Env Src
45	VCF Env Amt
46	VCF LFO 1 Amt
47	VCF DDS 2 Amt
48	VCA Dynamics
49	VCA Env Mode
50	Env 1 Mode
51	Env 1 Keytrack
52	Env 1 Hold
53	Env 1 Attack
54	Env 1 Decay
55	Env 1 Sustain
56	Env 1 Release
57	Env 2 Decay
58	Env 2 Sustain
59	Manual
60	LFO 2 Trigger Src

<b>CC#</b>	<b>Value</b>
61	Performance Ctrl Dest
62	LFO 2 Rate
63	LFO 2 Delay
64	Sustain Pedal
65	-
66	-
67	-
68	-
69	-
70	DDS LFO 2 Amt
71	VCF Resonance
72	Env 2 Release
73	Env 2 Attack
74	VCF Cutoff Frequency
75	VCF LFO 2 Amt
76	DDS Pitch Bend Amt
77	VCF Pitch Bend Amt
78	Voice Assign Mode
79	Unison Size
80	Binaural Mode On
81	Sync
82	Arp Range
83	Arp/Seq Swing
84	-
85	Arp/Seq Mode
86	Arp/Seq On
87	Hold
88	-
89	Seq Rec Mode
90	Seq Length
91	Delay Level
92	VCA LFO 1 Amt
93	-
94	-
95	-
96	Data Increment
97	Data Decrement
98	Non-Registered Parameter Number (NRPN) - LSB
99	Non-Registered Parameter Number (NRPN) - MSB

CC#	Value	CC#	Value
100	Registered Parameter Number (RPN) - LSB	114	-
101	Registered Parameter Number (RPN) - MSB	115	-
102	-	116	-
103	-	117	-
104	-	118	-
105	-	119	-
106	-	120	All Sound Off
107	-	121	Reset All Controllers
108	-	122	Local Control On/Off
109	-	123	All Notes Off
110	-	124	Omni Mode Off
111	-	125	Omni Mode On
112	-	126	Mono Mode On
113	-	127	Poly Mode On

## Non-Registered Parameter Numbers

The table below lists the non-registered parameter numbers (NRPNs) that are mapped to the global and patch-related parameters of the Super 6. These messages are transmitted and/or received dependent on TX/RX E configuration in the global settings (see pages 83 – 85).

## Global Parameters

NRPN	Value	Control Function	NRPN	Value	Control Function
2048	0-200	Master Fine Tune: 0 = -100 Cents 100 = 0 Cents 200 = +100 Cents	2052	0-1	MIDI Clock Transmit: 0 = Off 1 = On
2049	0-24	Master Coarse Tune: 0 = -12 Semitones 12 = 0 Semitones 24 = +12 Semitones	2053	0-1	MIDI Clock Receive: 0 = Off 1 = On
2050	0-4	Octave Selector: 0 = -2 Octaves 2 = 0 Octaves 4 = +2 Octaves	2054	0-1	Respond To MIDI Start & Stop: 0 = Off 1 = On
2051	0-15	MIDI Channel: 0 = MIDI Channel 1 15 = MIDI Channel 16	2055	0-3	MIDI Controller Transmit: 0 = Off 1 = CC 2 = NRPN 3 = CC & NRPN

<b>NRPN</b>	<b>Value</b>	<b>Control Function</b>	<b>NRPN</b>	<b>Value</b>	<b>Control Function</b>
2056	0-3	MIDI Controller Receive: 0 = Off 1 = CC 2 = NRPN 3 = CC & NRPN	2058	0-1	MIDI Program Change Receive: 0 = Off 1 = On
2057	0-1	MIDI Program Change Transmit: 0 = Off 1 = On	2059	0-1	Local Control 0 = Off 1 = On

## Patch-Related Parameters

<b>NRPN</b>	<b>Value</b>	<b>Control Function</b>	<b>NRPN</b>	<b>Value</b>	<b>Control Function</b>
0	0-5	LFO 1 Waveform/HF Mode	29	0-255	VCF DDS 2 Amt
1	0-21	LFO 1 DDS 1 Waveform	30	0-2	VCA Dynamics
2	0-255	LFO 1 Rate	31	0-2	VCA Env Mode
3	0-255	LFO 1 Delay	32	0-255	VCA Env Level
4	0-255	LFO 1 L/R Phase	33	0-255	VCA LFO 1 Amt
5	0-2	LFO 1 Mode	34	0-2	Env 1 Mode
6	0-255	DDS LFO 1 Amt	35	0-2	Env 1 Keytrack
7	0-255	DDS Env 1 Amt	36	0-255	Env 1 Hold
8	0-2	DDS Modulator Dest	37	0-255	Env 1 Attack
9	0-2	Super Mode	38	0-255	Env 1 Decay
10	0-255	PW/Detune	39	0-255	Env 1 Sustain
11	0-255	PWM/SWM	40	0-255	Env 1 Release
12	0-2	PWM/SWM Src	41	0-255	Env 2 Attack
13	0-255	Cross Mod	42	0-255	Env 2 Decay
14	0-20	DDS 1 Waveform	43	0-255	Env 2 Sustain
15	0-5	DDS 1 Range	44	0-255	Env 2 Release
16	0-5	DDS 2 Waveform	45	0-255	Portamento Time
17	0-5	DDS 2 Range	46	0-1	Manual
18	0-254	DDS 2 Tune	47	0-2	LFO 2 Trigger Src
19	0-2	DDS 2 Mode	48	0-2	Performance Ctrl Dest
20	0-254	Oscillator Mix/Split Point	49	0-255	LFO 2 Rate
21	0-2	VCF HPF Mode	50	0-255	LFO 2 Delay
22	0-2	VCF Drive	51	0-255	DDS LFO 2 Amt
23	0-255	VCF Cutoff Frequency	52	0-255	VCF LFO 2 Amt
24	0-255	VCF Resonance	53	0-255	DDS Pitch Bend Amt
25	0-2	VCF Keytrack	54	0-255	VCF Pitch Bend Amt
26	0-2	VCF Env Src	55	0-4	Voice Assign Mode
27	0-255	VCF Env Amt	56	0-5	Unison Size
28	0-255	VCF LFO 1 Amt	57	0-1	Binaural Mode On

<b>NRPN</b>	<b>Value</b>	<b>Control Function</b>	<b>NRPN</b>	<b>Value</b>	<b>Control Function</b>
58	0-255	Delay Level	67	0-4	Arp/Seq Mode
59	0-255	Delay Time	68	0-1	Arp/Seq On
60	0-255	Delay Feedback	69	0-1	Hold
61	0-1	Chorus I On	70	0-5	Seq Rec Mode
62	0-1	Chorus II On	71	0-63	Seq Length
63	0-255	Tempo	72-135	0-1	Seq Step 1-64 Slide
64	0-1	Sync	136-199	0-1	Seq Step 1-64 Accent
65	0-3	Arp Range	200-263	0-1	Seq Step 1-64 Rest
66	0-4	Arp/Seq Swing			

## System Exclusive Messages

Please see the appropriate section of the UDO website.