Synido

TempoPAD C16

USER MANUAL

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MIDI Controller

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CE DOC

Hereby, Shenzhen ArtFast Tech Co., Ltd declares that the radio equipment type Synido TempoPAD C16 is in compliance with Directive 2014/53/EU.The full text of the EU declaration of conformity is available at the following internet address: https://www.artfast.com/

FCC Warning:

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

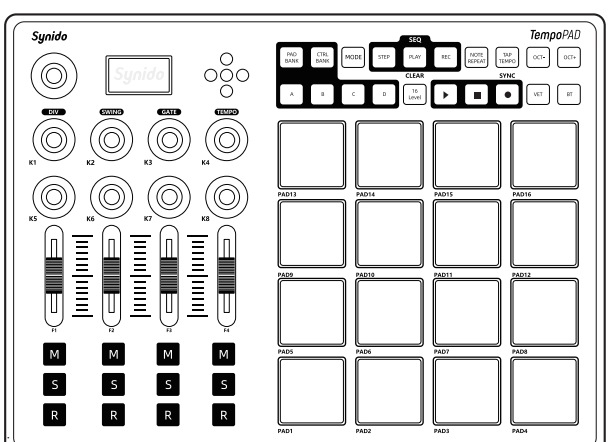
RF Exposure Information and Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

FCC ID: 2BA7V-SY02024

FOREWORD

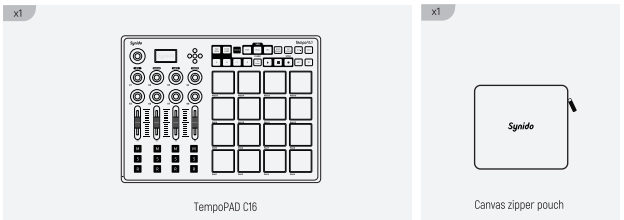
Thank you for choosing the Synido TempoPAD C16 product. The TempoPAD C16 is a MIDI protocol-based input control device that allows you to connect to computer or mobile DAW software for recording and editing notes. As a professional-grade MIDI controller, the TempoPAD C16 offers a diverse range of trigger units, high-precision hit response, and vibrant RGB lighting displays. With a built-in MIDI control editing system, all control module MIDI signal types and parameters can be customized directly on the hardware, without needing configuration software. Its comprehensive DAW software compatibility meets the functional needs of music creators and performers. Additionally, it features a 16-step sequencer with 16 tracks, enhancing its entertainment value. Whether you are a professional music producer or an enthusiast, it will be a great aid in your learning, creation, and performance. It is important to note that this device outputs only MIDI commands and does not produce audio signals; users should possess some basic music knowledge to use it effectively.



Product Features:

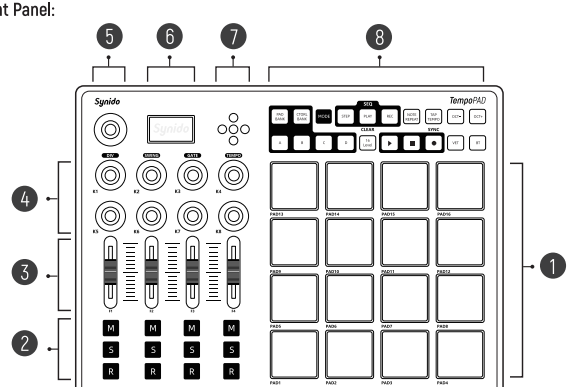
- 16 RGB backlit velocity/pressure-sensitive pads, with three working modes: Key mode, Custom mode, and Dark mode; in Custom mode, notes, CC controls, and PC program information can be freely assigned.
- Key mode supports octave switching and one-click reset.
- 8 assignable endless encoders, organized into 4 groups for a total of 32 controllers, used for sending CC and pitch bend information.
- 4 assignable faders, organized into 4 groups for a total of 16 controllers, used for sending CC, PC, and pitch bend information.
- 12 assignable buttons, organized into 4 groups for a total of 48 controllers, used for sending CC and PC information.
- 3 transport control buttons: play, stop, record; supports MMC command transmission.
- Supports velocity curve adjustment and 16 Level velocity layering function.
- Supports MIDI Clock SYNC for external BPM synchronization.
- Built-in controller parameter editing system with an OLED display for visualizing hardware function parameters.
- Built-in 16-track 16-step sequencer with note repeat function.
- Supports BLE wireless Bluetooth MIDI connection, with a built-in 3000mAh high-capacity battery.
- USB-C connection interface for easy connection to computers, smartphones, tablets, and other devices, featuring 1/8" TRS (3.5mm) type-A MIDI In, MIDI Out, and MIDI Thru standard MIDI transmission interfaces.

PACKING LIST



PANEL DESCRIPTION

Front Panel:



1.Pad Working Area:

The 4x4 layout features 16 silicone pads with velocity/pressure sensitivity and RGB lighting, allowing you to strike the pads to send MIDI information. In Custom mode, the pads can be grouped into A/B/C/D for a total of 64 command triggers.

2.Assignable Buttons:

There are 12 assignable buttons with trigger feedback. Pressing a button sends MIDI commands; the buttons do not have silk-printed content (M for Mute, S for Solo, R for Record), which must be mapped in the DAW software. These buttons can also be grouped into A/B/C/D, enabling 48 command triggers.

3. Assignable Faders:

Four assignable faders can be pushed to send MIDI commands. The faders can be grouped into A/B/C/D for a total of 16 command triggers.

4. Assignable Knobs:

Eight 360° endless knobs allow you to send MIDI commands by rotating them. The knobs can be grouped into A/B/C/D, enabling 32 command triggers. K1-K4 knobs feature Note Repeat and Sequencer quick configuration functions (Sequencer only supports tempo speed adjustment), achievable through key combinations. Please refer to the relevant sections in this manual for more details.

5. Main Control Knob:

The 360° stepless knob with tactile feedback can be pressed in conjunction with other function buttons to adjust parameters for the pads, assignable buttons, faders, knobs, transport control buttons, Note Repeat, Sequencer, and fixed velocity values for VEL.

6. Display

The OLED display shows the TempoPAD's functions and parameter information, defaulting to the Synido brand logo. It updates with operations; if idle, the display remains unchanged.

7. Directional Navigation Buttons

The layout includes four directional navigation buttons: " ↑ Up," " ↓ Down," "← Left," "→ Right," which can be used to select parameter configuration options.

In addition, the "←Left" and "→Right" buttons have additional functions:

When the Sequencer is turned on, long press the "←Left" button + 16 PADs to trigger the PAD signal immediately.

When Note Repeat is turned on, long press the "→Right" button + any 16 PADs to turn off the note repeat function of a certain PAD, so that it can be triggered in the normal form in the note repeat mode.

For detailed function introduction, please refer to the Sequencer and Note Repeat chapters in this manual

8. Function Control Buttons

Press the PAD BANK button with A/B/C/D to cycle through the four pad groups.

Press the CTRL BANK button with A/B/C/D to cycle through the control groups (8 assignable knobs + 4 assignable faders + 12 assignable buttons, totaling one CTRL group).

The MODE button switches between three pad working modes; in Night mode, it must be activated from Custom mode by long-pressing the MODE button.

The STEP button toggles the sequencer function.

The PLAY button starts the sequencer.

The REC button records the sequencer.

Long-press STEP + any PAD (PAD1 - PAD16) to switch to the selected PAD's sequencer step editing interface.

Long-press PLAY to delete the current PAD track step information in the sequencer.

Long-press the main control knob + PLAY to delete all step information across the 16 PAD tracks in the sequencer.

Press the main control knob + STEP to enter the sequencer TEMPO speed adjustment interface or long-press STEP + turn the TEMPO knob for quick setup.

The NOTE REPEAT button toggles the note repeat function.

The TAP TEMPO button determines the note repeat/sequencer tempo by tapping.
While NOTE REPEAT/sequencer is active, long-press TAP TEMPO until its backlight stays on to activate MIDI Clock external sync; press TAP TEMPO again to deactivate.

OCT- / OCT+ modifies the pitch range in KEY mode.

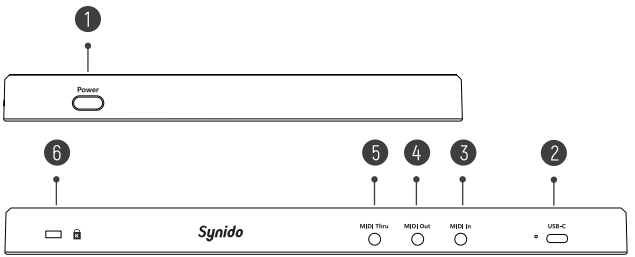
The 16 LEVEL button toggles the 16 LEVEL function.
Long-press 16 LEVEL + any PAD (PAD1 - PAD16) to switch to the selected PAD's note velocity layering.

The three transport control buttons (play, stop, record) can send transport control commands. Commands are sent as CC or MMC information; you can edit these commands through the device's settings or accompanying software.

The VEL button cycles through the PAD's velocity curves.

The BT button toggles BLE MIDI Bluetooth functionality.

Back panel:



1.Power: The main power switch turns the device on/off.

2.USB-C Interface: 2.Connect this USB port to your computer using a USB-A to USB-C cable. The computer's USB port provides power and data exchange with the TempoPAD C16. The indicator light next to it lights up red when charging and lights up green when fully charged.

3.MIDI In: 3.3.5mm jack for standard MIDI input; requires TRS to 5-PIN DIN MIDI adapter (Type A).

4.MIDI Out: 3.5mm jack for standard MIDI output; requires TRS to 5-PIN DIN MIDI adapter (Type A). When there is a signal input to the MIDI In interface, the MIDI signal received by MIDI In and the MIDI signal generated by the local device will be output from the MIDI Out interface together.

5.MIDI Thru: 5.3.5mm jack for standard MIDI output to replicate incoming MIDI signals; requires TRS to 5-PIN DIN MIDI adapter (Type A).

6.Lock Slot: You can use this slot to secure the TempoPAD C16 to a table or other surfaces.

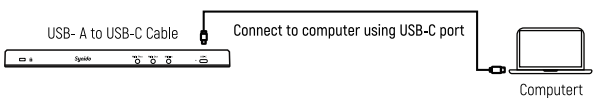
1.Connection Method

1.1 Wired Connection

Use with mainstream DAW host software.

① Turn on the TempoPAD C16 by toggling the Power switch on the left side. When the device has sufficient battery, the LED display and some control buttons will light up.

② Use the included USB-A to USB-C cable to connect the device directly to your computer.



③ Open your DAW software, such as Ableton Live, Cubase, FL Studio, or Logic Pro.

④ In your DAW software, navigate to Preferences, Options, or Device Setup, and select Synido TempoPAD C16 as both the input and output device.

Your TempoPAD C16 can now communicate with your DAW software.

Using with Mobile Devices (Phone/Tablet)

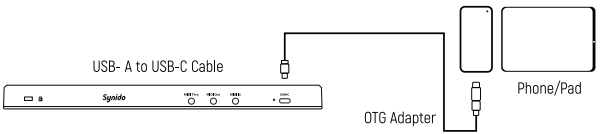
① Turn on the TempoPAD C16 by toggling the Power switch on the left side. When the device has sufficient battery, the LED display and some control buttons will light up.

② Connect the included USB-A to USB-C cable and USB-A to USB-C OTG adapter together.

③ Connect the end with the OTG adapter to your phone/tablet and the other end to the TempoPAD C16 device.

Note:

1. This method is also applicable for connecting to a computer's USB-C interface.
2. For Apple iOS devices, users must purchase a Lightning to OTG adapter due to regulations.
3. Due to power output limitations of Apple mobile devices, using the TempoPAD C16 with an Apple iOS phone/tablet may result in issues caused by insufficient power supply. Please ensure the TempoPAD C16 is adequately charged before use.



Use OTG adapter to connect phone/Pad

1.2 Wireless BLE Bluetooth Connection

Using with Windows Computer

① Before connecting, download and install MIDI Berry and Loop MIDI software on your computer.

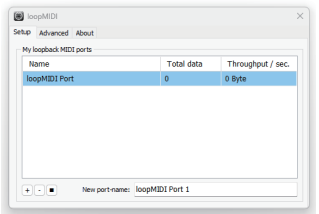
MIDI Berry Loop MIDI

② Turn on the TempoPAD C16 by toggling the Power switch on the left side. When the device has sufficient battery, the LED display and some control buttons will light up.

③ Press the BT button in the function key area; the button will light up red, indicating that the TempoPAD C16's Bluetooth function is activated and the device is in pairing mode.

④ On your computer, enable Bluetooth to pair the devices: Go to Settings >>> Bluetooth & other devices >>> Turn on Bluetooth >>> Add Bluetooth or other device >>> Bluetooth >>> Click on "Synido TempoPAD C16 BT" in the search list. The computer interface will show that "Synido TempoPAD C16 BT" is paired, and the BT button will continue to display a red backlight.

⑤ Open the Loop MIDI software; in the Setup interface, the New port-name input field allows you to customize the interface name, which defaults to "loopMIDI Port." Click the "+" on the left side of the input field to display interface information in the Ports list.



⑥ Open the MIDI Berry software; select "Synido TempoPAD C16 BT" in the INPUT list and "loopMIDI Port" in the OUTPUT list. The BT button on the TempoPAD C16 will now show a blue backlight, indicating a successful BLE Bluetooth connection. When you hit the pads, the INPUT MONITOR list will display data; if no data appears, please repeat the steps above.

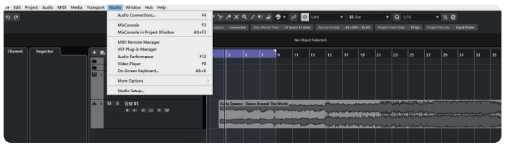
⑦ Open your DAW software, such as Ableton Live, FL Studio, or Logic Pro.

⑧ In your DAW software, navigate to Preferences, Options, or Device Setup, and select "loopMIDI Port" as both the input and output device.

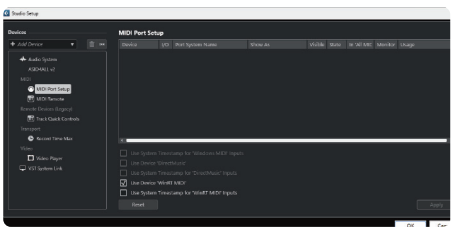
Your TempoPAD C16 can now communicate with your DAW software.

Note: Cubase software features WinRT MIDI functionality, allowing BLE wireless Bluetooth MIDI control without needing to download and configure MIDI Berry and Loop MIDI software. Follow these steps:

① Open Cubase and navigate to Studio >> Studio Setup.



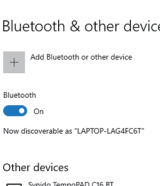
② In the Studio Setup window, check the box for "Use Device WinRT MIDI."



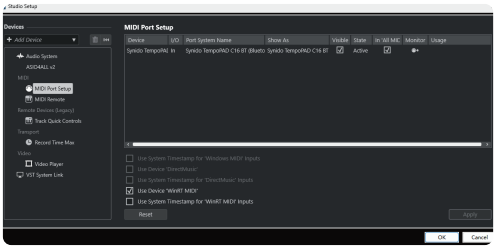
③ Turn on the TempoPAD C16 by toggling the Power switch on the left side. When the device has sufficient battery, the LED display and some control buttons will light up.

④ Press the BT button in the function key area; the button will light up red, indicating the Bluetooth function is active and the device is discoverable.

⑤ Enable Bluetooth on your computer for pairing: Go to Settings >>> Bluetooth & other devices >>> Turn on Bluetooth >>> Add Bluetooth or other device >>> Bluetooth >>> Click "Synido TempoPAD C16 BT" in the search list. The computer will display that "Synido TempoPAD C16 BT" is paired, and the BT button will remain red.



⑥ In Cubase's working interface, the input device will update to show "Synido TempoPAD C16 BT," status as "Active." The BT button will now display a blue backlight, indicating a successful BLE Bluetooth connection.



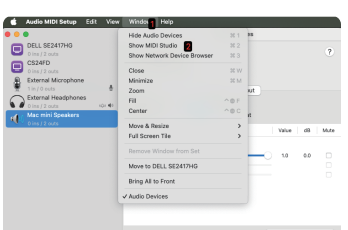
Your TempoPAD C16 can now communicate with Cubase software.

BLE Bluetooth MIDI Connection for Mac Computers

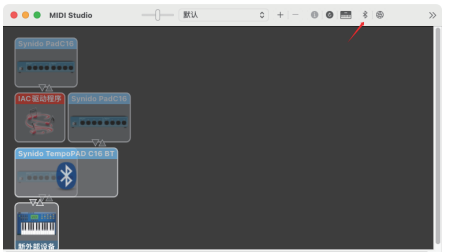
① Turn on the TempoPAD C16 by toggling the Power switch on the left side. When the device has sufficient battery, the LED display and some control buttons will light up.

② Press the BT button in the function key area; the button will light up red, indicating the Bluetooth function is active and the device is discoverable.

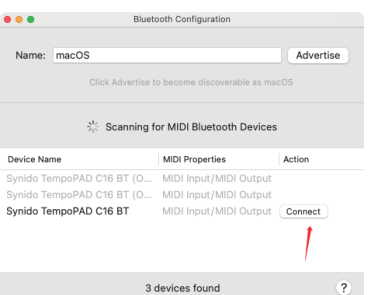
③ Open the "Audio MIDI Setup" application on your Mac, then click on MIDI Studio in the top left corner.



④ In the MIDI Studio window, click the Bluetooth icon in the upper right corner.



⑤ In the newly opened Bluetooth configuration window, select the "Connect" option for the device named "Synido TempoPAD C16 BT." The BT button will display a blue backlight, indicating a successful BLE Bluetooth connection.



⑥ Open your DAW software, such as Ableton Live, FL Studio, or Logic Pro.

⑦ In your DAW software, navigate to Preferences, Options, or Device Setup, and select "Synido TempoPAD C16 BT" as both the input and output device.

Your TempoPAD C16 can now communicate with your DAW software.

BLE Bluetooth MIDI Connection for Android Phones/Tablets

① Turn on the TempoPAD C16 by toggling the Power switch on the left side. When the device has sufficient battery, the LED display and some control buttons will light up.

② Press the BT button in the function key area; the button will light up red, indicating the Bluetooth function is active and the device is discoverable.

③ Enable Bluetooth on your phone/pad.

④ Using the "POP Piano" app as another example: After opening the app, click on the piano icon in the upper left corner.

⑤ In the new interface that pops up, select "Synido TempoPAD C16 BT" from the device list. The device will be successfully connected, and the BT button will display a blue backlight, indicating a successful BLE Bluetooth connection. Click on "Free Play" to start playing.

BLE Bluetooth MIDI Connection for iPhones/iPads

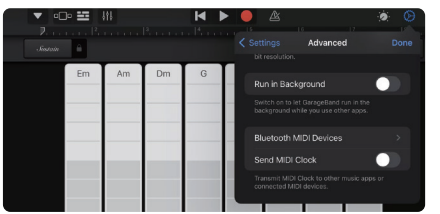
① Turn on the TempoPAD C16 by toggling the Power switch on the left side. When the device has sufficient battery, the LED display and some control buttons will light up.

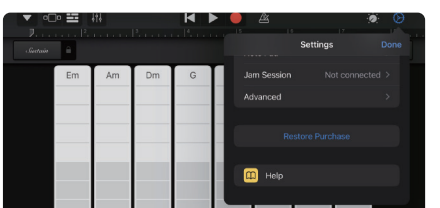
② Press the BT button in the function key area; the button will light up red, indicating the Bluetooth function is active and the device is discoverable.

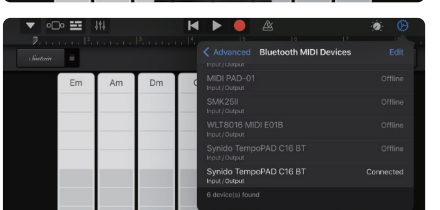
③ Enable Bluetooth on your iPhone/iPad.

④ Using the "GarageBand" app as an example: Open GarageBand and select "Keyboard" or "Drums" from the track categories.

⑤ Click on the settings icon in the upper right corner of the new interface, then select Advanced >> Bluetooth MIDI Devices >> Synido TempoPAD C16 BT. The app will display "Connected." The BT button will now show a blue backlight, indicating a successful BLE Bluetooth connection.







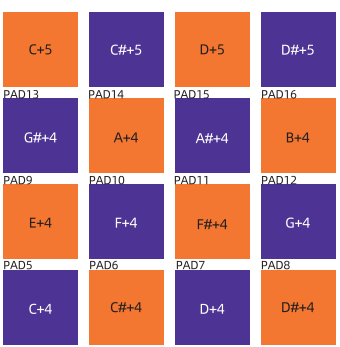
2.PADS

The Synido TempoPAD C16 features three working modes: KEYBOARD mode, CUSTOM mode, and DARK mode.

Press the MODE button to switch between modes. The color of the MODE button backlight indicates the current mode: red for KEYBOARD mode, green for CUSTOM mode, and yellow for DARK mode (DARK mode requires holding the MODE button while in CUSTOM mode).

KEYBOARD Mode (MODE button red): Enter KEYBOARD mode by pressing the MODE button, which will light up red. In this mode, the 4x4 pad grid simulates the arrangement of piano keys, allowing for keyboard play. It supports vertical octave stacking, with the lowest octave at the bottom and the highest at the top. The default note range is C4-C5, which can be changed by using the octave up/down buttons (OCT- / OCT+).

In this mode, the 16 pads display orange and purple lights, triggering red lights upon activation via MIDI NOTE commands, which cannot be customized. The layout of the NOTE information corresponding to the device's pad area is shown in the diagram below:



Note: Since the definition of middle C varies between different DAW software, the note names sent may not match exactly with what is displayed in the DAW.

CUSTOM Mode (MODE button green): In this mode, pads can send NOTE/CC/PC commands as set by you, and you can customize the colors triggered by the pads. You can save four custom function groups and quickly switch between them using the PAD BANK and A/B/C/D buttons. The A/B/C/D indicator lights show red, green, blue, and yellow, respectively.

Press the MODE button to enter CUSTOM mode, indicated by a steady green light on the MODE button. In CUSTOM mode, you can set parameters for any of the PADs (PAD1-PAD16) either directly on the device (by holding the main control knob while pressing the desired PAD, then rotating the main control knob along with the directional navigation buttons) or using the Synido TempoPAD C16 official configuration software to store the settings on the device. This allows you to modify the MIDI information types and data values, as well as the backlight colors for the 4x4 pad area. The MIDI information types you can choose from include NOTE information, CC control adjustment information, and PC preset switching information. You can also set the channel (CH) and the trigger type for CC information (instant/switch), along with the selection of backlight colors.

The default, PAD sends NOTE information as shown below:

BANK	NOTE Number	NOTE	Channel	PAD Trigger Light Color
A	36-51	C2-D#3	1	Red
B	52-67	E3-G4	1	Green
C	68-83	G#4-B5	1	Blue
D	84-99	C6-D#7	1	Yellow

The default triggering colors for the PAD BANK groups are as follows:

Selecting PAD BANK A triggers a red light.

Selecting PAD BANK B triggers a green light.

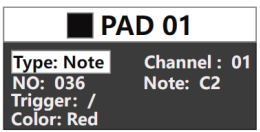
Selecting PAD BANK C triggers a blue light.

Selecting PAD BANK D triggers a yellow light.

The device allows for 16 different backlight colors to be set through direct configuration, which include:Red, Orange, Yellow, Green, Cyan, Blue, Purple, Light Purple, Light Red, Wine Red, Indigo Purple, Light Pink, Pink, Light Blue, Chartreuse, Light Green

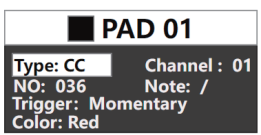
PAD parameter setting interface:There are three MIDI message types for the pads: NOTE, CC, and PC.

The editing interface of the screen when PAD selects to send NOTE message



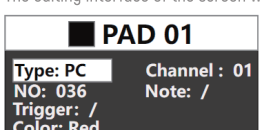
Channel: Note signal is sent to Channel, range 1-16
NO.: Note signal encoding Number, range 0-127
Note: Note Name
Trigger: N/A
Color: PAD trigger backlight color

The editing interface of the screen when PAD selects to send CC message



Channel: CC signal is sent to Channel, range 1-16
NO.: CC signal encoding Number, range 0-127
Note: N/A
Trigger: Momentary trigger and Toggle trigger
Color: PAD trigger backlight color

The editing interface of the screen when PAD selects to send PC message



Channel: PC signal is sent to Channel, range 1-16
NO.: PC signal encoding Number, range 0-127
Note: N/A
Trigger: N/A
Color: PAD trigger backlight color

For specific setup instructions using the official Synido TempoPAD C16 software, please refer to the software usage section of this manual.

DARK Mode (MODE button yellow): In CUSTOM mode, long-pressing the MODE button will activate DARK mode, illuminating all pad backlights. The A/B/C/D pad parameters remain inherited from CUSTOM mode. In this mode, the backlights stay lit, but do not illuminate upon triggering, maintaining the custom colors set in CUSTOM mode.

Note quick lookup table:

MIDI Number	Mote Name	MIDI Number	Mote Name	MIDI Number	Mote Name	MIDI Number	Mote Name
0	C-1	32	G#+1	64	E+4	96	C+7
1	C#-1	33	A+1	65	F+4	97	C#+7
2	D-1	34	A#+1	66	F#+4	98	D+7
3	D#-1	35	B+1	67	G+4	99	D#+7
4	E-1	36	C+2	68	G#+4	100	E+7
5	F-1	37	C#+2	69	A+4	101	F+7
6	F#-1	38	D+2	70	A#+4	102	F#+7
7	G-1	39	D#+2	71	B+4	103	G+7
8	G#-1	40	E+2	72	C+5	104	G#+7
9	A-1	41	F+2	73	C#+5	105	A+7
10	A#-1	42	F#+2	74	D+5	106	A#+7
11	B-1	43	G+2	75	D#+5	107	B+7
12	C0	44	G#+2	76	E+5	108	C+8
13	C#0	45	A+2	77	F+5	109	C#+8
14	D0	46	A#+2	78	F#+5	110	D+8
15	D#0	47	B+2	79	G+5	111	D#+8
16	E0	48	C+3	80	G#+5	112	E+8
17	F0	49	C#+3	81	A+5	113	F+8
18	F#0	50	D+3	82	A#+5	114	F#+8
19	G0	51	D#+3	83	B+5	115	G+8
20	G#0	52	E+3	84	C+6	116	G#+8
21	A0	53	F+3	85	C#+6	117	A+8
22	A#0	54	F#+3	86	D+6	118	A#+8
23	B0	55	G+3	87	D#+6	119	B+8
24	C+1	56	G#+3	88	E+6	120	C+9
25	C#+1	57	A+3	89	F+6	121	C#+9
26	D+1	58	A#+3	90	F#+6	122	D+9
27	D#+1	59	B+3	91	G+6	123	D#+9
28	E+1	60	C+4	92	G#+6	124	E+9
29	F+1	61	C#+4	93	A+6	125	F+9
30	F#+1	62	D+4	94	A#+6	126	F#+9
31	G+1	63	D#+4	95	B+6	127	G+9

Note: Since the definition of middle C varies between different DAW software, the note names sent may not match exactly with what is displayed in the DAW.

3.Assignable Knobs

The Synido TempoPAD C16 features 8 customizable 360° infinite knobs that can send CC, Pitch Bend messages. The KNOB BANK has four groups (A/B/C/D) that can be configured for a total of 32 different parameter settings. You can set parameters directly on the device by holding the main control knob while rotating one of the K1-K8 knobs you wish to configure, and using the main control knob along with the directional navigation buttons for selection. Alternatively, you can complete the settings in the Synido TempoPAD C16 official software and save them on the device. You can quickly switch groups by selecting the CTRL BANK and using the A/B/C/D buttons (8 assignable knobs + 4 assignable faders + 12 assignable buttons, forming a complete CTRL BANK control group). The A/B/C/D buttons light up in red, green, blue, and yellow, respectively.

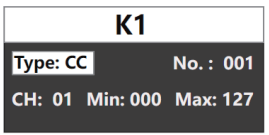
By default, the knobs send CC messages as shown in the accompanying image.

BANK A	Knob	Knob1	Knob2	Knob3	Knob4	Knob5	Knob6	Knob7	Knob8
	CC Number#	CC#01	CC#02	CC#03	CC#04	CC#05	CC#06	CC#07	CC#08
	Channel	1	1	1	1	1	1	1	1
	Min Value	0	0	0	0	0	0	0	0
	Max Value	127	127	127	127	127	127	127	127
BANK B	Knob	Knob1	Knob2	Knob3	Knob4	Knob5	Knob6	Knob7	Knob8
	CC Number#	CC#09	CC#10	CC#11	CC#12	CC#13	CC#14	CC#15	CC#16
	Channel	1	1	1	1	1	1	1	1
	Min Value	0	0	0	0	0	0	0	0
	Max Value	127	127	127	127	127	127	127	127
BANK C	Knob	Knob1	Knob2	Knob3	Knob4	Knob5	Knob6	Knob7	Knob8
	CC Number#	CC#17	CC#18	CC#19	CC#20	CC#21	CC#22	CC#23	CC#24
	Channel	1	1	1	1	1	1	1	1
	Min Value	0	0	0	0	0	0	0	0
	Max Value	127	127	127	127	127	127	127	127
BANK D	Knob	Knob1	Knob2	Knob3	Knob4	Knob5	Knob6	Knob7	Knob8
	CC Number#	CC#25	CC#26	CC#27	CC#28	CC#29	CC#30	CC#31	CC#32
	Channel	1	1	1	1	1	1	1	1
	Min Value	0	0	0	0	0	0	0	0
	Max Value	127	127	127	127	127	127	127	127

Knobs K1 - K4 are parameter knobs that include functions for NOTE REPEAT and the SEQ sequencer, allowing you to adjust DIV note duration, SWING, GATE length, and TEMPO. Note that the SEQ sequencer only supports adjusting the TEMPO. For detailed operational instructions, please refer to the sections on NOTE REPEAT and the Sequencer in this manual.

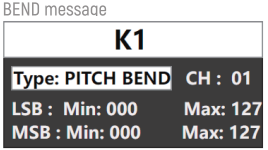
KONB parameter setting interface:There are two MIDI message types for the Knobs: CC and Pitch bend.

The editing interface of the screen when KONB selects to send CC message



NO.: CC signal encoding Number, range 0-127
CH: CC signal is sent to Channel, range 1-16
Min: Minimum value of the parameter range sent by CC signal
Max: Maximum value of the parameter range sent by CC signal

The editing interface of the screen when KONB selects to send PITCH BEND message



CH: pitch bend signal is sent to Channel, range 1-16
LSB Min: Minimum value of the least significant bit range of the pitch bend signal
LSB Max: Maximum value of the least significant bit range of the pitch bend signal
MSB Min: Minimum value of the most significant bit range of the pitch bend signal
MSB Max: Minimum value of the most significant bit range of the pitch bend signal

4.Assignable Faders

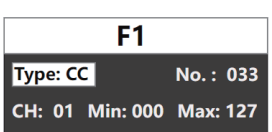
The Synido TempoPAD C16 features four customizable faders that can send CC, PC, and Pitch Bend messages. The Fader BANK includes four groups (A/B/C/D), allowing for a total of 16 different parameter settings. You can configure parameters directly on the device by holding the main control knob while moving one of the F1-F4 faders you wish to set, and using the main control knob along with the directional navigation buttons to select the fader parameters or using the Synido TempoPAD C16 official configuration software to store the settings on the device. You can quickly switch groups by selecting the CTRL BANK and using the A/B/C/D buttons (8 assignable knobs + 4 assignable faders + 12 assignable buttons, forming a complete CTRL BANK control group). The A/B/C/D buttons light up in red, green, blue, and yellow, respectively.

By default, the faders send CC messages as shown in the accompanying image.

BANK A	Fader	Fader 1	Fader 2	Fader 3	Fader 4
	CC Number#	CC#33	CC#34	CC#35	CC#36
	Channel	1	1	1	1
	Min Value	0	0	0	0
	Max Value	127	127	127	127
BANK B	Fader	Fader 1	Fader 2	Fader 3	Fader 4
	CC Number#	CC#37	CC#38	CC#39	CC#40
	Channel	1	1	1	1
	Min Value	0	0	0	0
	Max Value	127	127	127	127
BANK C	Fader	Fader 1	Fader 2	Fader 3	Fader 4
	CC Number#	CC#41	CC#42	CC#43	CC#44
	Channel	1	1	1	1
	Min Value	0	0	0	0
	Max Value	127	127	127	127
BANK D	Fader	Fader 1	Fader 2	Fader 3	Fader 4
	CC Number#	CC#45	CC#46	CC#47	CC#48
	Channel	1	1	1	1
	Min Value	0	0	0	0
	Max Value	127	127	127	127

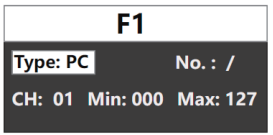
Fader parameter setting interface:There are three MIDI message types for the fader: CC, PC, and PITCH BEND.

The editing interface of the screen when Fader selects to send CC message



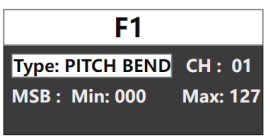
NO.: CC signal encoding Number, range 0-127
CH: CC signal is sent to Channel, range 1-16
Min: Minimum value of the parameter range sent by CC signal
Max: Maximum value of the parameter range sent by CC signal

The editing interface of the screen when Fader selects to send PC message



NO.: N/A
CH: PC signal is sent to Channel, range 1-16
Min: Minimum value of the encoding range sent by the PC signal
Max: Maximum value of the encoding range sent by the PC signal

The editing interface of the screen when Fader selects to send PITCH BEND message



CH: pitch bend signal is sent to Channel, range 1-16
MSB Min: Minimum value of the most significant bit range of the pitch bend signal
MSB Max: Maximum value of the most significant bit range of the pitch bend signal

5.Button

The Synido TempoPAD C16 features 12 assignable buttons with trigger feedback. Pressing a button can send CC and PC messages. These buttons do not have printed labels for M (Mute), S (Solo), or R (Record) functions, which must be mapped in the DAW software to be enabled. The Button BANK includes four groups (A/B/C/D), allowing for 48 different parameter settings. You can configure these on the device by holding the main control knob while pressing one of the M/S/R buttons you wish to set, and using the main control knob along with the directional navigation buttons to adjust the parameters or using the Synido TempoPAD C16 official configuration software to store the settings on the device. You can quickly switch groups by selecting the CTRL BANK and using the A/B/C/D buttons (8 assignable knobs + 4 assignable faders + 12 assignable buttons, forming a complete CTRL BANK control group). The A/B/C/D buttons light up in red, green, blue, and yellow, respectively.

By default, the buttons send CC messages as shown in the accompanying image:

BANK A	button	F1(M)	F1(S)	F1(R)	button	F3(M)	F3(S)	F3(R)
	CC Number#	CC#49	CC#50	CC#51	CC Number#	CC#55	CC#56	CC#57
	button	F2(M)	F2(S)	F2(R)	button	F4(M)	F4(S)	F4(R)
	CC Number#	CC#52	CC#53	CC#54	CC Number#	CC#58	CC#59	CC#60
BANK B	button	F1(M)	F1(S)	F1(R)	button	F3(M)	F3(S)	F3(R)
	CC Number#	CC#61	CC#62	CC#63	CC Number#	CC#67	CC#68	CC#69
	button	F2(M)	F2(S)	F2(R)	button	F4(M)	F4(S)	F4(R)
	CC Number#	CC#64	CC#65	CC#66	CC Number#	CC#70	CC#71	CC#72
BANK C	button	F1(M)	F1(S)	F1(R)	button	F3(M)	F3(S)	F3(R)
	CC Number#	CC#73	CC#74	CC#75	CC Number#	CC#79	CC#80	CC#81
	button	F2(M)	F2(S)	F2(R)	button	F4(M)	F4(S)	F4(R)
	CC Number#	CC#76	CC#77	CC#78	CC Number#	CC#82	CC#83	CC#84
BANK D	button	F1(M)	F1(S)	F1(R)	button	F3(M)	F3(S)	F3(R)
	CC Number#	CC#85	CC#86	CC#87	CC Number#	CC#91	CC#92	CC#93
	button	F2(M)	F2(S)	F2(R)	button	F4(M)	F4(S)	F4(R)
	CC Number#	CC#88	CC#89	CC#90	CC Number#	CC#94	CC#95	CC#96

The default CC trigger type set to "toggle," all on channel CH1.

Button parameter setting interface: There are two MIDI message types for the button, CC and PC.

The editing interface of the screen when Button selects to send CC message

Channel: N/A
NO.: PC signal is sent to Channel, range 1-16
Trigger: Minimum value of the encoding range sent by the PC signal

The editing interface of the screen when Button selects to send PC message

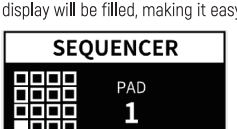
Channel: PC signal is sent to Channel, range 1-16
NO.: PC signal encoding Number, range 0-127
Trigger: N/A

6.Sequencer

The TempoPAD C16 features a 16-track, 16-step sequencer. Press the STEP button to activate the sequencer, which will light up in red. The signal data for the 16 pads comes from the KEYBOARD MODE or selected PAD BANK of CUSTOM MODE (the sequencer will not function if the PAD BANK contains non-NOTE signal data). When activated, the sequencer defaults to the note step interface for PAD1; the 16 pads become a 16-step trajectory for PAD1's note. Triggering any of the pads will illuminate them in yellow, indicating the current step is active; re-triggering will turn off the light, indicating the step is inactive.

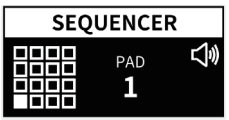
The color layout for the different PAD tracks is shown in the accompanying image.

Switch Track Editing Interface: Long press the STEP button + any pad to switch to the step sequencer interface for the note associated with PAD1-PAD16. The 16 pads correspond to 16 tracks, each track's sequencer steps can be edited, and all 16 tracks can be played simultaneously. If a track contains step information, the PAD icon on the OLED display will be filled, making it easy to see which PAD tracks are active.



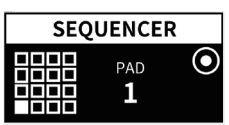
The display screen when the PAD1 track is selected and notes are placed in the track

Play Sequencer: Press the PLAY button to start the step sequencer playback. The PLAY button will light up with a steady red light. At this point, the purple running light will jump and move along the step sequence of PAD1-PAD16. When the running light passes over a PAD with a color, it will trigger the NOTE signal data of the current PAD.



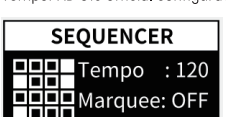
Display interface when playing the sequencer

For recording notes: the REC function allows you to capture step data. Press the REC button, which will flash red to indicate that recording is active. When recording, the pads will not light up, but pressing them will trigger a purple light and output NOTE signals; once any PAD is triggered, the PLAY button will light up, with both PLAY and REC buttons illuminated in red. The moving light will be hidden but still functional. After exiting the REC function, the interface will return to the sequencer display.



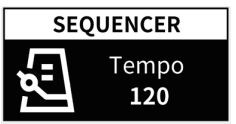
Display screen when recording sequencer

Turn on the REC note recording indicator marquee: When in REC recording mode, the purple indicator light is off by default, but you can also turn it on; long press the main control knob + STEP button to enter the sequencer configuration interface, then turn the main control knob to adjust the Marquee option from OFF to ON. or using the Synido TempoPAD C16 official configuration software to store the settings on the device.



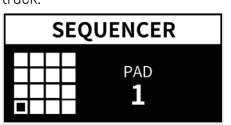
Display screen when configuring sequencer parameters

Modify the sequencer speed: You can modify the sequencer playback speed (BPM) using a combination of buttons (STEP + TEMPO knob) or by repeatedly pressing the TAP TEMPO button. To use the combination, hold the STEP button while turning the TEMPO knob. The BPM speed can be adjusted within the range of 20 - 240 BPM.



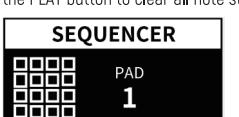
Display interface when quickly changing the sequencer BPM speed

Clear Individual PAD Track Step Information: The PLAY button includes an additional CLEAR function; long press the PLAY button to clear the note steps in the current PAD track.



Example: When all tracks contain notes, the display screen will appear after the step information of the PAD1 track is cleared.

Clear All PAD Track Step Information: Long press the main control knob while pressing the PLAY button to clear all note steps across the 16 PAD tracks.



Display screen after clearing all PAD track step information

TAP TEMPO Button: This button is used to set the BPM tempo. When the sequencer is in PLAY mode, the LED below this button will flash, with the flashing speed representing the tempo. Pressing it repeatedly will allow the device to detect the tempo, and the light will flash according to the speed of your presses, completing the setting. You can also turn on the SYNC function by long pressing the TAP TEMPO button until it lights up red. At this time, the sequencer will ignore the local BPM beat speed and run according to the BPM speed of the MIDI Clock sender.

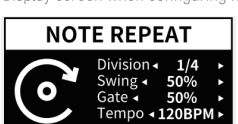
Jam in sequencer: You can still play in sequencer after the sequencer function is turned on. This function also allows you to know the enabled sounds in a certain PAD track. The notes played in time will not be recorded into the sequencer step, and will not affect the notes in the sequencer workflow. You can use a combination of keys to achieve this function. The detailed operation method is: After the sequencer is turned on, press and hold the "← left " button of the directional navigation without releasing it. At this time, the 16 PADs are displayed with orange backlights. Randomly tapping the PAD will trigger the NOTE message in time.

Note: The SEQ sequencer function only responds to note events. If one or more pads in the designated PAD BANK send CC or PC events, the sequencer will not activate.

7.NOTE REPEAT

The TempoPAD C16 features a NOTE REPEAT function. When activated, the device will repeatedly send note information according to the set DIV note value, SWING amount, GATE length, and TEMPO speed. You can configure this on the device by holding the main control knob while pressing the NOTE REPEAT button. The OLED display will enter the parameter editing interface, allowing you to rotate K1 - K4 to set the parameters.
In addition, NOTE REPEAT also supports turning off the note repeat function of certain PADs. The PADs with the note repeat function turned off will send a single NOTE signal in the form of normal triggering.

Display screen when configuring note repeat parameters



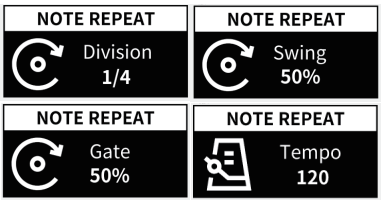
① **DIV Note Values:** 1/4 (quarter note), 1/4T (quarter note triplet), 1/8 (eighth note), 1/8T (eighth note triplet), 1/16 (sixteenth note), 1/16T (sixteenth note triplet), 1/32 (thirty-second note), 1/32T (thirty-second note triplet).

② **SWING Amount:** 50% (off), 55%, 57%, 59%, 61%, 64%, 67%, 70%, 73%, 76%.

③ **GATE Length:** 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%

④ **TEMPO Speed:** 20 - 240

Quick Parameter Configuration Method: Hold the NOTE REPEAT button while rotating K1 - K4 to set the NOTE REPEAT parameters.



TAP TEMPO Button: This button is also used to set the tempo. If the NOTE REPEAT function is active, the LED under this button will flash, with the flashing speed representing the tempo. Pressing it repeatedly will allow the device to detect the tempo, and the light will flash according to your pressing speed, completing the setting.You can also turn on the SYNC function by long pressing the TAP TEMPO button until it lights up red. At this time, the NOTE REPEAT will ignore the local BPM beat speed and run according to the BPM speed of the MIDI Clock sender.

Turn off/on some PAD note repeat: After turning on the NOTE REPEAT function, it is turned on globally by default, that is, tapping all 16 PADs will send NOTE note signals repeatedly. If you want to turn off the note repeat function of some PADs and send a single NOTE note signal in a normal triggering form (a single tap trigger sends a NOTE signal), you can use a combination of keys to achieve this function. The detailed operation method is: after the note repeat is turned on, long press the direction navigation "→right" key without releasing it. At this time, the 16 PADs are displayed with purple backlights. Pressing any PAD will turn off its backlight. The PAD with the backlight turned off has the note repeat function turned off. You can also use the same operation method to turn on the PAD with the note repeat turned off.

Note: The NOTE REPEAT function only affects note events. When the designated PAD sends CC or PC events, the NOTE REPEAT function will not work.

8.TAP TEMPO: Tempo Measurement and SYNC Functionality

The TempoPAD C16 features a BPM tempo measurement function. When the sequencer and note repeat functions are active, you can set the tempo by repeatedly pressing the TAP TEMPO button. The LED below this button will flash, with the flashing speed indicating the tempo, which ranges from 20 to 240 BPM. By pressing the button multiple times, the device will detect the tempo, and the light will flash in sync with your presses, completing the setting.

The device also supports the SYNC function for tempo synchronization (Acts as a receiving device only, does not send MIDI Clock signals) : long press the TAP TEMPO button until the backlight turns solid red, indicating that the SYNC function is activated. At this point, the device can receive external MIDI clock synchronization signals. The TempoPAD C16 will ignore its own TEMPO settings and operate the sequencer (SEQ) and note repeat (NOTE REPEAT) functions according to the primary MIDI clock BPM. Pressing the button again will deactivate the tempo synchronization function.

9.Octave Adjustment Buttons (OCT- / OCT+)

In KEYBOARD mode, the TempoPAD C16 supports octave adjustment. The OCT+ button increases the octave, while the OCT- button decreases it. Pressing the octave up/down buttons will change the range by up to four octaves, covering the notes from C0 to C8. Additionally, pressing both octave buttons (in quick succession) will restore the default initial value.

Octave octave adjustment screen interface

Note: Because different DAW software may define Middle C differently in their piano roll, the note information sent may not align with what is displayed in the DAW software.

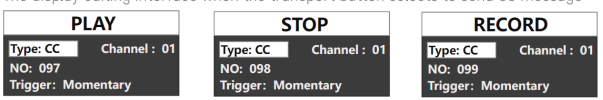
10.Transport Control Buttons

The TempoPAD C16 includes three backlit transport control buttons: Play, Stop, and Record. Pressing these buttons can send CC or MMC events. You can configure these settings directly on the device (hold the main control knob while pressing the desired transport button, then rotate the main control knob along with the directional navigation buttons to set the parameters for the selected button) or complete the settings in the official Synido TempoPAD C16 software and save them to the device.

By default, pressing the buttons will send CC events, as shown in the table below:

Transport Buttons	Play	STOP	Record
CC Number#	97	98	99
Chanmel	1	1	1
Trigger Type	Momentary	Momentary	Momentary

The display editing interface when the transport button selects to send CC message

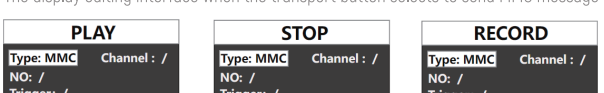


Channel: CC signal is sent to Channel, range 1-16
NO.: CC signal encoding Number, range 0-127
Trigger: Trigger type: Momentary trigger and Toggle trigger

If the device sends MMC events, the MMC receive function must be enabled in the DAW software.

If the device sends CC events, you must adjust the mapping in the DAW software to control the corresponding functions. If functions are not assigned in the host software, the buttons will not operate as intended.

The display editing interface when the transport button selects to send MMC message

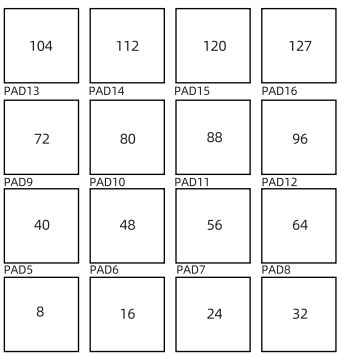


Channel: N/A
NO.: N/A
Trigger: N/A

Tip: MMC commands can be used in DAW software that supports MMC functionality without the need for mapping, such as Cubase, FL Studio, Studio One, Pro Tools, Logic Pro X, Reaper, and GarageBand.

11.16 Level Strength Layering

The 16-Level velocity layering function allows the velocity value of a single pad's NOTE to be subdivided into 16 levels. This feature provides a more nuanced representation of the same sound's response at different velocities. The image below shows a detailed distribution of velocities when the function is activated. If the parameters on the pad are not NOTE signals, this function will not operate. By default, the velocity layering is set for the NOTE value in PAD1, and you can switch it using the combination of the 16 Level button and any of the PAD1 - PAD16 buttons.



Velocity value assignment in 16 Level mode

12.Pad Velocity Curve

The TempoPAD C16 offers four velocity curves to accommodate different playing styles: Fixed Velocity, Soft, Medium, and Hard. The velocity curve affects the strength of the strikes on the pads and the feedback of the output note velocities. You can switch between different velocity curves by pressing the VEL button, with the backlight indicating the current velocity curve type:

Fixed Velocity - White: In this mode, regardless of how hard you strike, the pad always outputs a fixed velocity. The default output velocity is 127. You can set this on the device (hold the main control knob while pressing the VEL button, then rotate the main control knob to adjust the fixed velocity value) or complete the settings in the official Synido TempoPAD C16 software and save them to the device.

Soft - Blue: Suitable for players who tend to strike the pads with lighter force; a light tap will yield higher velocity values.

Medium - Green: The velocity correlates linearly with MIDI values, suitable for most musical styles and performers.

Hard - Red: Designed for players who strike the pads with more force; a strong hit is needed to achieve higher velocity values.

13.MIDI Bluetooth

The TempoPAD C16 supports BLE (Bluetooth Low Energy) MIDI functionality. Unlike classic Bluetooth, it cannot be discovered or connected using traditional Bluetooth methods. For detailed connection methods with various devices, please refer to the "Wireless BLE Bluetooth Connection" section of this manual.

By default, the BLE Bluetooth is turned off. Press the BT button; the BT button will light up in red, indicating that the TempoPAD C16's Bluetooth functionality is now on, and the device is in a discoverable pairing state. Once successfully connected, the BT button will display a solid Bluetooth light. Long pressing the button will turn off the BLE Bluetooth function, and the BT button will not light up.

COMPANION SOFTWARE INSTRUCTIONS

1.Software Download and Installation

The Synido TempoPAD C16 comes with companion software, which is used to write or read parameter settings on the device and to send various MIDI commands.

You can download the software from the following link:
https://www.synido.com/pages/downloads

Once the download is complete, run the program to begin the installation process.

2.Software Interface

1. Menu Bar
2. Custom Knob Settings Area
3. Custom Fader Settings Area
4. Custom Button Settings Area
5. Note Repeat and Sequencer Settings Area
6. Fixed Velocity Value and Velocity Curve Settings Area
7. Send/Retrieve Settings from Hardware
8. Transport Control Buttons Settings Area
9. Pad Settings Area
10. Connection Status Indicator

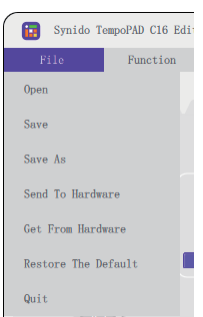
3.Device Occupancy (Applicable to Windows Systems Only)

The connection status of the device is displayed in the upper-right corner of the software interface (area ⑩). The software can only write or read the TempoPAD's parameter settings when the device is shown as "Connected."
If "Connected" is displayed, it means the software and the TempoPAD are properly connected, and configuration can be transferred between them.

If "Not Connected" is displayed, it could be due to the device not being correctly connected to the computer, or another program (such as a DAW) occupying the device. In this case, you need to exit the DAW or any other program using the MIDI device, and sometimes you may need to reconnect the device.

4.Menu Bar

The menu bar offers the following functions: Open, Save, Save As, Send to Harware, Get from Hardware, Restore The Default, Quit.



Open: Load a parameter configuration file.
Save: Save the current parameter settings in the existing preset file. If no preset file is available, a dialog will open to save it as a new file with the ".stm" extension.
Save As: Save the current parameter settings as a new preset file.
Send to Hardware: Send the current parameter settings to the TempoPAD.
Retrieve from Hardware: Retrieve the parameter settings from the TempoPAD.
Restore Defaults: Reset the device to the factory default settings.
Exit: Close the control panel.

5.Assignable Knob Settings

Click the storage tab to switch to the group you want to edit (8 assignable knobs + 4 assignable faders + 12 assignable buttons, forming one CTRL BANK control group).

Click the tab to select the event type. Available types are CC (Control Change), or Pitch Bend.

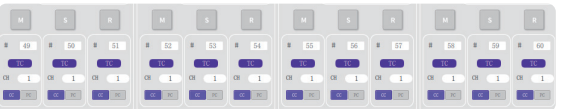
Enter the minimum and maximum values to determine the knob's control range.
Select the event's channel: 1–16.

6.Assignable Fader Settings

Click the storage tab (same as the assignable knobs section) to switch to the group you want to edit (8 assignable knobs + 4 assignable faders + 12 assignable buttons, forming one CTRL BANK control group).

Click the tab to select the event type. Available types are CC, PC (Program Change), or Pitch Bend.
Enter the minimum and maximum values to determine the fader's control range.
Select the event's channel: 1–16.

7.Assignable Button Settings



Click the storage tab (same as the assignable knobs section) to switch to the group you want to edit (8 assignable knobs + 4 assignable faders + 12 assignable buttons, forming one CTRL BANK control group).

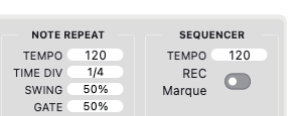
Click the tab to select the event type. Available types are CC or PC.

For CC, there are two trigger type options:

MC (Momentary Control): Sends an "instant" trigger.
TC (Toggle Control): Sends a "toggle" trigger.
Select the event's channel: 1–16.

Tip: In Momentary mode, pressing a button sends an event with a value of 127, and releasing the button sends an event with a value of 0.
In Toggle mode, each press and release sends alternating values of 127 and 0.

8. Note Repeat and Sequencer Parameter Settings



The NOTE REPEAT function has four adjustable parameters:
TEMPO (BPM): 20 - 240

TIME DIV (Note Value): Options include 1/4 (quarter note), 1/4T (quarter note triplet), 1/8 (eighth note), 1/8T (eighth note triplet), 1/16 (sixteenth note), 1/16T (sixteenth note triplet), 1/32 (thirty-second note), 1/32T (thirty-second note triplet).

SWING: Options include 50% (off), 55%, 57%, 59%, 61%, 64%, 67%, 70%, 73%, 76%.

GATE (Note Length): Options include 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%.

The SEQUENCER can only set the TEMPO parameter and Turn on/off the REC marquee.

9. Velocity Curve and Parameter Management

PAD CURVE: The velocity curve can be set to:

EXP (Exponential): Hard feedback, suitable for players who hit pads with significant force.

LIN (Linear): Linear relationship between velocity and MIDI value, suitable for most musicians.

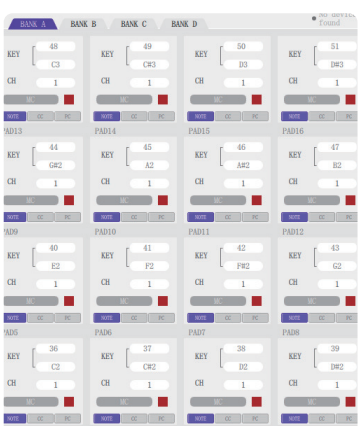
LOG (Logarithmic): Soft feedback, suitable for players who use lighter hits.

FIX (Fixed): Outputs a fixed velocity value regardless of how hard the pad is hit.

FIX VEL VALUE: Adjustable fixed velocity range: 0 - 127.

Send to Hardware: Sends current parameter settings to the TempoPAD.
Get from Hardware: Gets parameter settings from the TempoPAD.

10. PAD Settings



Click the storage tab to switch between groups A, B, C, and D.
Click the color block to open the RGB color editor and adjust the pad backlight color.
Click to select the channel for event transmission.
Click the pad label to choose event types: NOTE, CC, or PC.
For NOTE events, enter a number in the key field or click the note name to adjust pitch (instant/toggle functions are not available).
For CC events, enter the event number.
For PC events, enter the event number; toggle/instant functions are unavailable, sending one PC event per pad press.

Tip: In Momentary mode, pressing a button sends a value of 127, and releasing it sends a value of 0.

In Toggle mode, each press and release alternates between sending 127 and 0.

11. Quick Layout

The quick layout feature allows for rapid configuration of functions on the panel. Click the Function menu to open the window. Fill in the parameters, check the boxes, and click "Apply" to quickly layout parameters on the panel.

Knobs: Quickly set CC values, size ranges, channels, pitch bend coarse and fine adjustment ranges, and pitch bend channels.

Faders: Quickly set CC values, size ranges, channels, touch ranges, touch channels, pitch bend coarse adjustment ranges, and pitch bend channels.

Pads: Quickly set CC, NOTE, PC values, as well as RGB light colors and brightness.

1.Starting Value: MIDI information starting encoding range: 0 - 127.

2.Ascending/Descending: In Ascending, the starting encoding will increment; in Descending, it will decrement.

3.Min/Max: Range for CC event parameters.

4.Trigger Type: MC (Momentary Control) or TC (Toggle Control).

12. Firmware upgrade

Connect the device until the software shows "Connected."
Click the Help menu and select "About," then click "Firmware Update" in the dialog box.

Warning: Ensure a stable internet connection before upgrading, and avoid other operations during the process. Upgrade failures may render the product inoperable For guidance, check the "Firmware Upgrade" section in the Syndio website FAQ or contact customer service for assistance.

PRODUCT SPECIFICATION

Product Model: TempoPAD C16	**Power Consumption:** 300mA
Color: Green	**Product Weight:** 940g
Material: Plastic + Silica Gel	**Product Size:** 290*213*42mm
Battery capacity: 3000mAh (Fully charged, it can standby for 5 hours)	
MIDI Connector: TRS (Type A) MIDI In / Out / Thru	

CUSTOMER SUPPORT

For more FAQ, visit Support Center: **Synido.com/support**
or scan the QR code
or **email us at cs@synido.com**
WORKING TIME: 9:00 - 18:00 (MONDAY TO FRIDAY, GMT+8)

APPENDIX

MIDI Event Interpretation:

Event: A MIDI command.

Channel: There are 16 channels in MIDI protocol, and most MIDI events contain channel information. Users can set on the receiving device to hear only the events from a certain channel. For example, device A only receives events from channel 1, and device B only receives events from channel 2. Then on the sending device, the user can send channel 1 events to control device A, and send channel 2 events to control device B.

CC Event: Controller Change event. A CC event contains the following information: channel number, CC number, and event value. MIDI protocol defines some specific CC numbering functions, for example, CC#7 event is the main volume event, and CC # 64 is the piano pedal event; Some CC commands are not defined functions, so users can define them as wish. See the appendix for the definition of CC events;
CC event can be a single command: for example, press a PAD and send a command of CC # 64 at value 127, and the receiving device will execute the action of opening the piano pedal after receiving the command; It can also be continual commands, such as rotating a knob to send events of CC # 7 with a value from 0 to 127. After receiving the command, the system will adjust the volume from the minimum to the maximum.

PC Event: Program Change event. It is also a kind of control command containing channel information and event numbers. It usually used for voice change.

Momentary: When a key (button) is pressed, an ON event is sent, and when a key (button) is released, an OFF event is sent; For example, when a pad is used to imitate the function of the piano keys, the "Note ON" command is sent when the pad is pressed, and the "Note OFF" command is sent when the pad is released.

Toggle: When the full operation of pressing + releasing is completed, the ON and OFF events will be sent alternately; For example, it can be used as a switch. Each time you tap a pad, it alternately sends commands with values of 127 and 0. Set 127 as ON and 0 as OFF at the receiving end, the control effect can be achieved.

CC Default Event List:

CC 0 (BankSel MSB)
CC 1 (Modulation)
CC 2 (Breath)
CC 3 (Control 3)
CC 4 (Foot)
CC 5 (Portamento)
CC 6 (DataEnt MSB)
CC 7 (Main Volume)
CC 8 (Balance)
CC 9 (Control 9)
CC 10 (Pan)
CC 11 (Expression)
CC 12 (Control 12)
CC 13 (Control 13)
CC 14 (Control 14)
CC 15 (Control 15)
CC 16 (Gen Purp 1)
CC 17 (Gen Purp 2)
CC 18 (Gen Purp 3)
CC 19 (Gen Purp 4)
CC 20 (Control 20)
CC 21 (Control 21)
CC 22 (Control 22)
CC 23 (Control 23)
CC 24 (Control 24)
CC 25 (Control 25)
CC 26 (Control 26)
CC 27 (Control 27)
CC 28 (Control 28)
CC 29 (Control 29)
CC 30 (Control 30)
CC 31 (Control 31)
CC 32 (BankSel LSB)
CC 33 (Modulation LSB)
CC 34 (Breath LSB)
CC 35 (Control 35)
CC 36 (Foot LSB)
CC 37 (Porta LSB)
CC 38 (DataEnt LSB)
CC 39 (Main Volume LSR)
CC 40 (Balance LSB)
CC 41 (Control 41)
CC 42 (Pan LSB)
CC 43 (Expr LSB)
CC 44 (Control 44)
CC 45 (Control 45)
CC 46 (Control 46)
CC 47 (Control 47)
CC 48 (Control 48)
CC 49 (Control 49)
CC 50 (Control 50)
CC 51 (Control 51)
CC 52 (Control 52)
CC 53 (Control 53)
CC 54 (Control 54)
CC 55 (Control 55)
CC 56 (Control 56)
CC 57 (Control 57)
CC 58 (Control 58)
CC 59 (Control 59)
CC 60 (Control 60)
CC 61 (Control 61)
CC 62 (Control 62)
CC 63 (Control 63)
CC 64 (Sustain)
CC 65 (Porta On/Off)
CC 66 (Sostenuto)
CC 67 (Soft Pedal)
CC 68 (Legato FS)
CC 69 (Hold 2)
CC 70 (Sound Var)
CC 71 (Harmonic)
CC 72 (Release Time)
CC 73 (Attack Time)
CC 74 (Brightness)
CC 75 (Control 75)
CC 76 (Control 76)
CC 77 (Control 77)
CC 78 (Control 78)
CC 79 (Control 79)
CC 80 (Gen Purp 5)
CC 81 (Gen Purp 6)
CC 82 (Gen Purp 7)
CC 83 (Gen Purp 8)
CC 84 (Porta Ctrl)
CC 85 (Control 85)
CC 86 (Control 86)
CC 87 (Control 87)
CC 88 (Control 88)
CC 89 (Control 89)
CC 90 (Control 90)
CC 91 (ExtEff 1 Depth)
CC 92 (ExtEff 2 Depth)
CC 93 (ExtEff 3 Depth)
CC 94 (ExtEff 4 Depth)
CC 95 (ExtEff 5 Depth)
CC 96 (Data Incr)
CC 97 (Data Decr)
CC 98 (NRPN LSB)
CC 99 (NRPN MSB)
CC 100 (RPN LSB)
CC 101 (RPN MSB)
CC 102 (Control 102)
CC 103 (Control 103)
CC 104 (Control 104)
CC 105 (Control 105)
CC 106 (Control 106)
CC 107 (Control 107)
CC 108 (Control 108)
CC 109 (Control 109)
CC 110 (Control 110)
CC 111 (Control 111)
CC 112 (Control 112)
CC 113 (Control 113)
CC 114 (Control 114)
CC 115 (Control 115)
CC 116 (Control 116)
CC 117 (Control 117)
CC 118 (Control 118)
CC 119 (Control 119)
CC 120 (AllSndOff)
CC 121 (Reset Ctrl)
CC 122 (Local Ctrl)
CC 123 (AllNoteOff)
CC 124 (Omni Mode Off)
CC 125 (Omni Mode On)
CC 126 (Mono Mode On)
CC 127 (Poly Mode On)