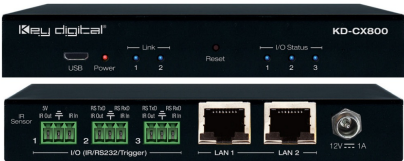


Key digital KD-CX800 KeyCode Open API Controllers



Key digital KD-CX800 KeyCode Open API Controllers User Guide

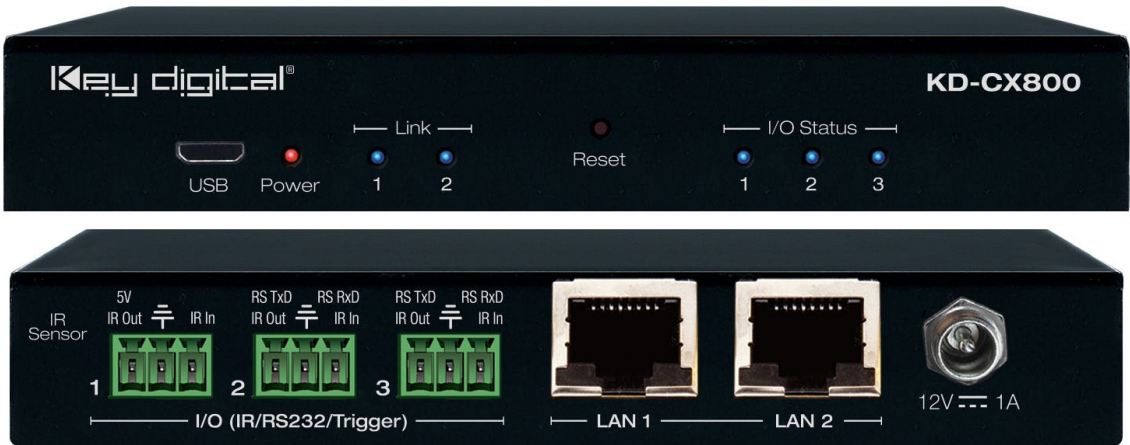
[Home](#) » [Key Digital](#) » Key digital KD-CX800 KeyCode Open API Controllers User Guide 

Contents

- 1 Key digital KD-CX800 KeyCode Open API Controllers
- 2 Product Information
- 3 Product Usage Instructions
- 4 Applicable Models
- 5 Description
- 6 Collecting Strings for IR Devices
- 7 Common IR Examples
- 8 Documents / Resources
 - 8.1 References
- 9 Related Posts



Key digital KD-CX800 KeyCode Open API Controllers



Product Information

Specifications

- **Applicable Models:** Model K D-CX 800, KD-IP822ENC/DEC, KD-IP922ENC/DEC, KD-IP1022ENC/DEC
- **Controller** Description
- **I/O Control Ports:** 3
- **AV** over IP Encoder/Decoder

Product Usage Instructions

Setup

1. Use KDMS Pro software to ensure the unit's I/O Control ports are set to Open API control mode, with IR or RS232 configuration.
 - a. For RS-232, ensure the Baudrate is set according to the device you are controlling.
2. Send the desired command string to the unit's Main IP address.
 - a. For I/O Control Port 1 (RS-232 not supported), use IP Port 4581*
 - b. For I/O Control Port 2, use IP Port 4582*
 - c. For I/O Control Port 3, use IP Port 4583*
 - Unless the port assignment has been updated.

Controlling RS-232 Devices

Send any RS-232 string to the encoder/decoder/controller over IP on port 4582/4583. Port 1 does not support RS-232 control.

Common IR Examples

- **Samsung TV Power On:** [IR command example]
- **Samsung TV Power Off:** [IR command example]
- **Samsung TV Power Toggle:** [IR command example]
- **Samsung TV Volume +:** [IR command example]
- **Mute Toggle:** [IR command example]

Frequently Asked Questions (FAQ)

Q: How to set up the I/O Control ports for Open API mode?

- **A:** Use the KDMS Pro software to configure the unit's I/O Control ports for Open API mode and ensure proper IR or RS232 settings.

Q: Is it possible to control multiple devices simultaneously through the API?

- **A:** No, all I/O port traffic is limited to only one TCP connection at a time.

Applicable Models

Model	Description	I/O Control Ports	Notes
KD-CX800	Controller	3	1 IR, 2 IR/RS- 232
KD-IP822ENC/DEC	AV over IP Encoder/Decoder	2	1 IR, 1 IR/RS- 232
KD-IP922ENC/DEC 922ENC/ DEC-II	AV over IP Encoder/Decoder	3	1 IR, 2 IR/RS- 232
KD-IP1022ENC/DEC IP1022ENC/DEC-II	AV over IP Encoder/Decoder	3	1 IR, 2 IR/RS- 232

Description

- If a Unit's port is configured for use in Open API mode, the device will listen on a dedicated TCP port for that I/O port. The user application/control system can then make a TCP connection to that port and send data to that I/O port.
- IP Port number assignments for I/O ports are flexible and are assigned using KDMS Pro. It is recommended that TCP Port assignments always be no lower than 1024.
- All I/O port traffic is limited to only one TCP connection at a time.
- Only 1 port may be set to RS-232 per unit.

Setup

1. Use KDMS Pro software to ensure the unit's I/O Control ports are set to Open API control mode, with IR or RS232 configuration.
 - **a.** For RS-232, ensure the Baudrate is set according to the device you are controlling. See the example image.
2. Send desired command string to the unit's Main IP address
 - **a.** For I/O Control Port 1 (RS-232 not supported), use IP Port 4581*
 - **b.** For I/O Control Port 2, use IP Port 4582*
 - **c.** For I/O Control Port 3, use IP Port 4583*
 - Unless the port assignment has been updated.



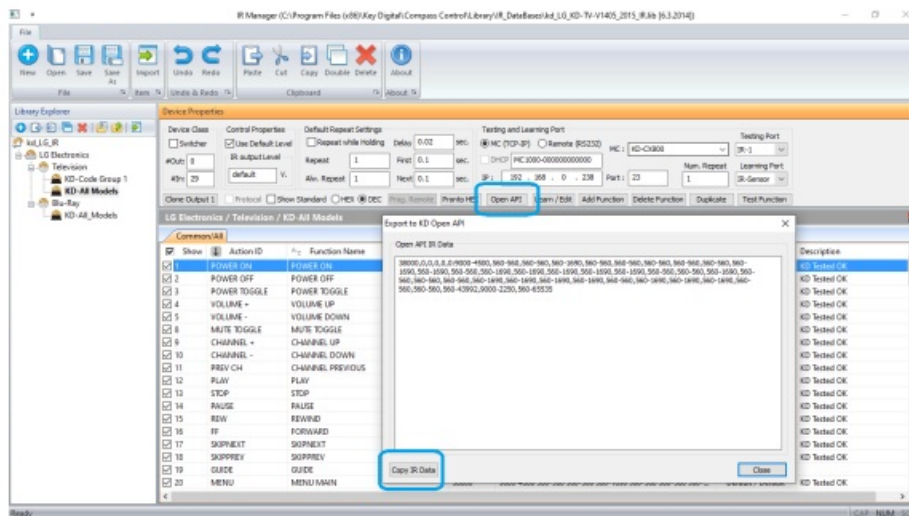
Controlling RS-232 Devices

- Send any RS-232 string to the encoder/decoder/controller over IP on port 4582/4583. Port 1 does not support RS-232 control. Only 1 port may be set to RS-232 per unit.
- Specify ASCII, HEX, or Binary string format in the user application/control system as the encoder/decoder/controller is transparent and does not apply any formatting.
- Include carriage return or line feed characters if required by the device you are controlling.

Collecting Strings for IR Devices

To collect the Open API string for controlling IR Devices:

1. Open Key Digital IR Database Manager v2.0.6 or later.
2. File -> Open to find the Brand of device you need to control.
3. Choose the Device from the Library Explorer list at the left of the screen.
4. Choose the command you wish to copy the Open API string for
5. Press the Open API button, and Copy IR Data to your clipboard so you may paste it into your User Application/Control System.
6. Add a carriage return at the end of the string sent from User Application/Control system for the KD Open API unit to execute the command.



Common IR Examples

- **Samsung TV Power On**
 - 38028,0,0,0,0,0:4522-4522,578-1682,578-1682,578-1682,578-552,578-552,578-552,578-552,578-552,578-1682,578-1682,578-1682,578-552,578-552,578-552,578-552,578-1682,578-552,578-552,578-1682,578-1682,578-552,578-552,578-1682,578-1682,578-552,578-552,578-1682,578-1682,578-552,578-552,578-1682,578-1682,578-552,578-64000,4522-4522,578-1682,578-1682,578-1682,578-552,578-552,578-552,578-552,578-552,578-1682,578-1682,578-1682,578-552,578-552,578-552,578-552,578-552,578-1682,578-1682,578-552,578-552,578-1682,578-1682,578-552,578-552,578-1682,578-552,578-1682,578-1682,578-552,578-552,578-1682,578-552,578-1682,578-1682,578-552,578-552,578-1682,578-552,578-1682,578-552,578-552,578-1682,578-552,578-1682,578-552,578-65535
- **Power Off**
 - 38380.0.0.0.0.0:4507-4507,547-1693,547-1693,547-1693,547-547,547-547,547-547,547-547,547-547,547-

- 40244,0,0,0,0,0:2385-596,596-596,1192-596,596-596,596-596,1192-596,596-596,596-596,1192-
596,596-596,596-596,596-596,596-596,596-64000,2385-596,596-596,1192-596,596-596,596-596,1192-596,596-

- **Volume –**

- **Mute Toggle**

- **HDMI 1**

- **HDMI 2**

- **AppleTV (4th Gen) Play/Pause Toggle**

- **Stop**

- **Menu**

- **Left**

- **Right**

- Up

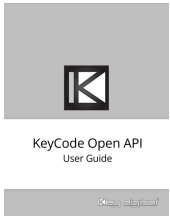
- **Down**

- **Enter/Select**

- **FF 30 Seconds**

- **Rewind 10 Seconds**

- **Rewind 30 Seconds**



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PI Controllers, API Controllers, Controllers

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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