

Q-NEX Control Box CBX100

User Manual



1. Product Introduction

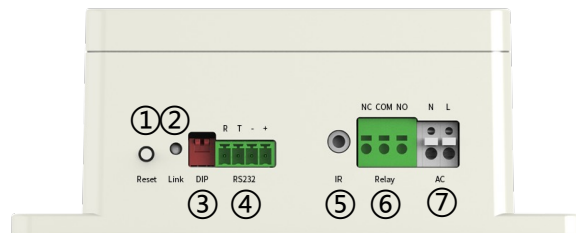
Q-NEX Control Box (CBX), is a part module of Networked Media Processor (NMP). Connect to NMP by wireless network and build a cloud control system, which easily realizes remote device management on campus for the convenient control of multiple devices such as air conditioners, displays, lights, e-curtains, etc. Effectively shorten management cycle and improve the work efficiency of school IT admins. There is no need for wiring. Wall-mounted design ensures easy installation and stable performance.

2. Product Overview

2.1 Front View



2.2 Rear View



- ① Reset Button
- ② Indicator of linking status
- ③ DIP Switch
- ④ RS232 Interface
- ⑤ Infrared Transmitter Interface
- ⑥ Relay Interface
- ⑦ Power Supply

3. Pairing

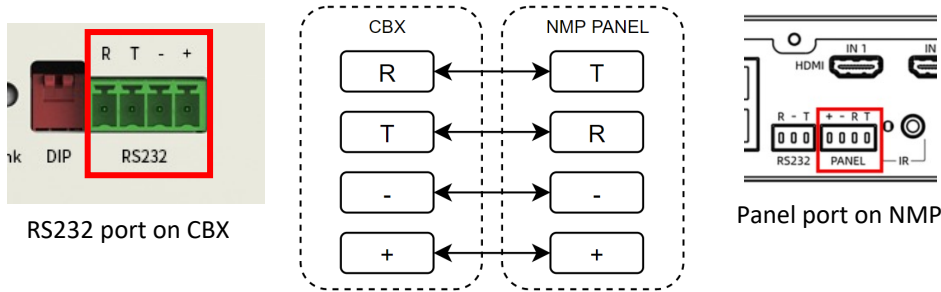
3.1 Each DIP switching combination is referred to one CBX, and the serial number is one-to-one matched with each CBX, which will appear on Q-NEX Console for device control. One CBX can control one Device.

DIP Switch Instruction:

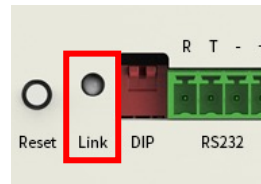
No.	Switch 1	Switch 2	
1	Up	Up	
2	Down	Up	
3	Up	Down	
4	Down	Down	

According to DIP switch instruction, set DIP switching combination of one CBX number and start pairing.

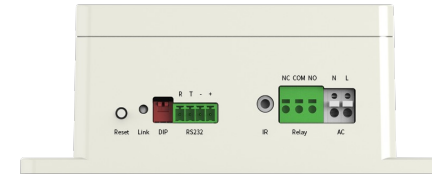
3.2 Wire CBX to NMP by connecting CBX's RS232 to NMP's PANEL port as instruction below, it can be done through the cable with connectors provided in the accessory. Or, users can DIY a cable by the instructed connection below.



3.3 Long press the reset button for 4-5 seconds, the green light flashes while CBX automatically pairs with NMP. The green light is always on after pairing successfully.



3.4 Unplug the cable between CBX and NMP. Keep the CBX powered on, and connect the CBX box to the device which can be controlled via RS232, IR or Relay.

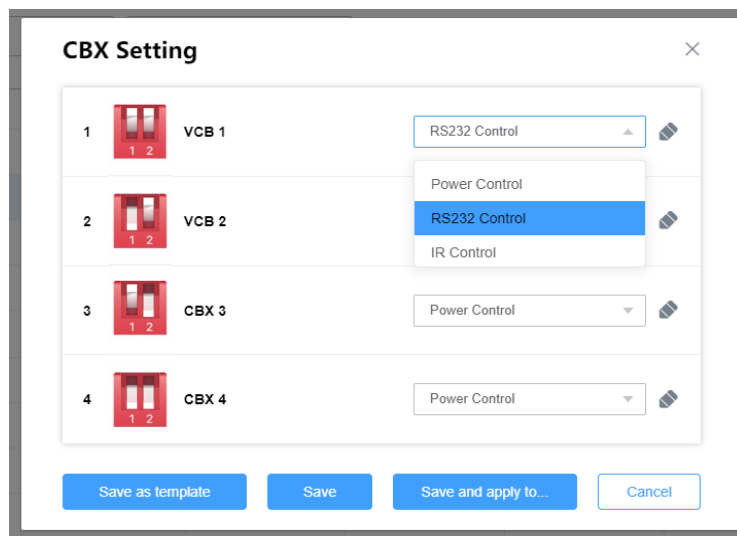


3.5 Log in to Q-NEX Dashboard to set up CBX.

Device > Device Management, select NMP, and click the "Edit" on CBX for setting.

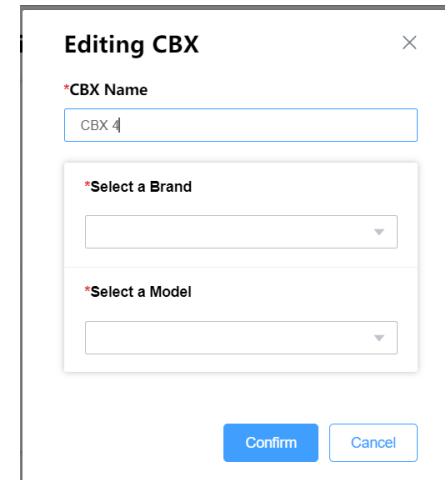
IR Control	CBX Control	RFID Card

Select the number according to DIP switch, click the selection box of control mode. Power control, RS232 control and infrared control can be chosen.



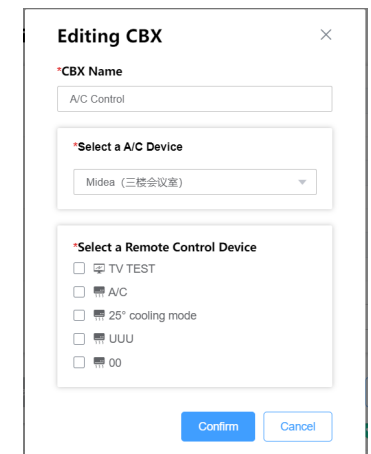
Please rename CBX and select a brand and model of the device connected by RS232.

Note: If the brand and model are not in the list, please refer to "RS232 Control Code" to add a new code.



Please rename CBX and select an air conditioner OR a remote control device connected by IR.

Note: If the IR device is not in the list, please refer to "IR Control" to learn a new IR control Code.



Click Save after the setting is complete.

Notice:

- 1) Press the reset button on CBX to restart the operation from the first step, when the NMP is changed.
- 2) When a device for controlling is replaced, please log in to Q-NEX Dashboard to reset.
- 3) Indicator Instruction:

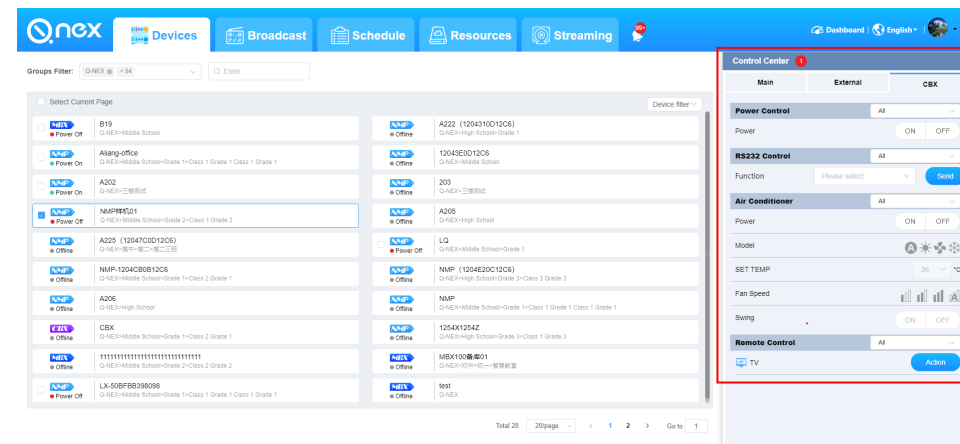
Indicator	Status
Green light flashes	CBX is pairing with NMP
Green light is on	CBX is connected to NMP via WiFi
Red light is on	CBX is disconnected to NMP via WiFi

- 4) The Relay interface of CBX is mainly used for power control, such as lamp, projector, TV etc.;
- RS232 interface can be used to control RS232 devices, such as interactive flat panel, projector, etc.;
- IR interface is used to control devices with infrared remote control, such as: Air conditioning, TV, curtains, etc.

4. Device Control

4.1 Control by Q-NEX Console

Log in to Q-NEX Console, click Device Control, and select the NMP that has been paired with CBXs. Then you will see the list of devices connected to CBXs, which are ready to be controlled.



4.2 Control by Q-NEX App

Log in to the Q-NEX APP, select the NMP that has been paired with CBXs. Then you will see the list of devices connected to CBXs, which are ready to be controlled.



5. Specification

AC power supply	90-300VAC
Input power consumption	<3W
Working environment	-20°C ~ 85°C
WiFi	IEEE 802.11 b/g/n 1T1T 2.4GHz
Relay interface	SPDT
Maximum load (resistance)	250VAC, 10A
Maximum switching power	2500VA
Communication interface	1*RS232, 1*IR remote control
Maximum wireless transmission range to NMP	15 Meters

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