JNC Cloud Box Embedded Edge AI

CB

[Features]

Code 3: L

① ② ③ ④

Code 3: C

① ② ③ ④

Code 3: A

① Powe
② Sensor
③ Sensor
④ Network

Optional configuration according to CBA

- Embedded Edge AI :Using a PLC-like architecture,it features logic processing and on-site control capabilities. Once the logic configuration is completed, it can operate independently to determine and control field equipment even without an internet connection.
- Seamless integration with JNC SCADA: Supports full read/write access with the JNC SCADA system, allowing remote configuration of the CB directly through the SCADA platform, significantly enhancing management efficiency.
- Built-in web interface allows remote management and configuration via browser.
- Equipped with an IP68 waterproof enclosure, featuring moisture, heat, and shock resistance.
- Optional SMS alert function supports full Chinese interface and power outage notifications.
- Global software updates/upgrades supported via email.
- Supports a three-network architecture: RJ-45 wired, 4G (optional), and Wi-Fi (optional).
- Real-time 4G signal strength monitoring and optional GPS positioning function.
- Supports automatic switching between mains power, solar power, and battery, with configurable sleep mode for high energy efficiency.
- Compatible with solar panel charging, with battery level and charging status monitoring to ensure optimal power generation performance.
- Integrated 0.96-inch color LCD displays real-time field data, USB status, and date/time.
- Provides 5V / 12V / 24V power outputs (jumper selectable) to support various sensor requirements.

[Applications]

Environmental monitoring, meteorological monitoring, independent monitoring stations, flood monitoring, pollution monitoring, sewage treatment plants, water plants.

[Optional Code]

CB – Code 1 – Code 2 – Code 3 – Code 4 – Code 5 – Code 6

Code 1	Network	Code 2	SIM card communication	Code 3	Outer box	Code 4	Power	Code 5	Output voltage	Code 6	Connector
N	Ethernet	N	None	L	PCW175 Transparent cover (with screen)	Li	Charging lithium battery	N	Not powered by CB	N	Cable head
		NB	NB-IoT								
		4G	4G with built-in antenna					5	5V (<16W)		
		4GO	4G with external antenna								
W	Wifi	GPS	4G (built-in antenna) including GPS function	C	PCW175 Opaque cover (without screen)	Pb	Charging lead storage battery	12	12V (<24W)	C	Quick Connector
		GPSO	4G (external antenna) with GPS function	A	Additional box tray required			24	24V (<24W)		

※If you select "A" for code 3, you must select "N" for code 5 and select the CBA waterproof box accessories.

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[CB waterproof box accessories]

CBA – Code1 – Code 2

Code 1	Application Type	Code 2	Adaptor
400	Multi-sensor and connect back to CB	12V	DC12V/50W
1Relay	1. One wet contact output (Relay) 2. Used for single-channel sprinkler and other projects		
3Relay	1. One wet contact output (Relay) 2. Two-point dry contact output (Relay) 3. Two-point dry contact input (DI) 4. Used as infrared and traffic light control for vehicles	24V	DC24V/50W
Solar	Paired with a solar panel (No power adapter or no-fuse breaker included)		

[Specifications]

Power	◆DC12~36V ◆Power consumption : ≦3.6W		
Working environment	Operating temperature	-20℃~70℃ (-4℉~158℉)、(WiFi 0~70℃)	
	Storage temperature	-20℃~70℃ (-4℉~158℉)	
	Relative humidity	0~95 % RH non-condensing	
Communication function	Ethernet interface	RJ-45 Ethernet, Modbus TCP communication protocol	
	Ethernet communication function	Web Service, standard Modbus communication protocol, http upload, MQTT upload	
	Communication interface	RS-485 X2 group, Master and Slave can be modified freely	
	Communication protocol	Standard Modbus communication protocol	
	4G communication function	Alarm ring and text message, http(s) upload, MQTT(s) upload	
Signal input	Analog Input (AI)	4-20 mA*1	
	Digital input (DI)	DI*2, can do switching counting within 200Hz	
	Digital output (DO)	Dry contact*1, DC24V 1A, need to be connected to relay	
Display panel	0.96 inch, TFT-LCD		
Physical conditions	Code 3 Optional items	L、C	A
	Dimension (mm)	252 x 175 x 60 (W×H×D)	300*400*150(W×H×D)
	Weight	<0.7kg	<3.5kg
Shell specifications	Material	PC + Anti-UV	ABS
	Waterproof and dustproof grade	IP68	
Record	USB recording function, supports up to 64GB (FAT32 format)		
Certificate	CE ,FCC		
Patent	R.O.C. Patent No M429156 / M474956 / M594326 China Patent No. 2514208 / 3968342		

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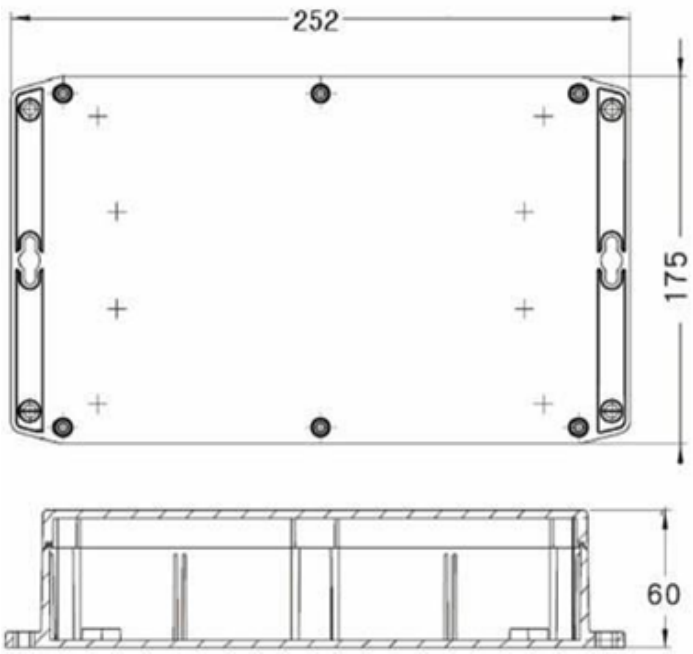
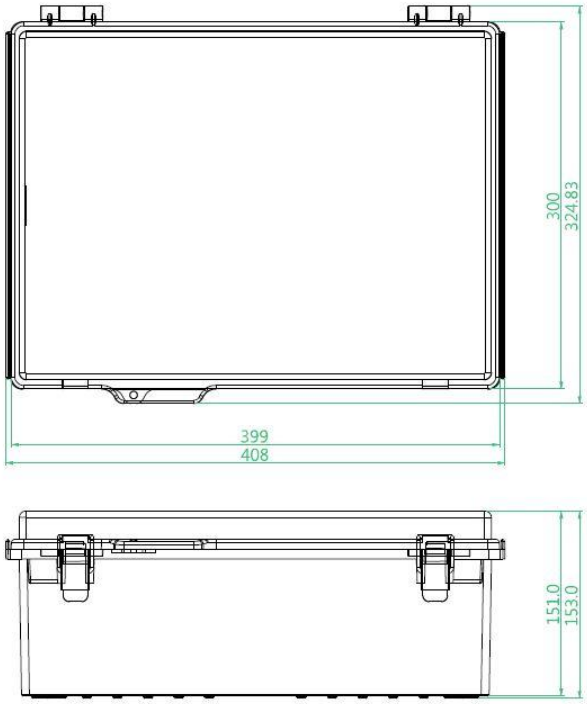
[Dimension] Unit:mm

Code 3: L、C



Code 3: A



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