MODEL #

IOBOX-08

NETWORK I/O CONTROLLER ***RELAY BOARD***

MULTI-CHANNEL RELAY OUTPUT

Provides multiple independently controllable relay outputs (8 or 16 channels) for triggering doors, alarms, lights, sirens, or other external devices.

FLEXIBLE POWER INPUT

Supports 12 VDC / 24 VDC or 12 VAC / 24 VAC power, allowing easy integration into existing low-voltage security and access control systems.

NORMALLY OPEN / NORMALLY CLOSED CONTACTS

Each relay supports NO and NC contact configurations for compatibility with a wide range of controlled equipment.

API-BASED REMOTE RELAY CONTROL

Enables relay activation via network commands or control logic initiated by NVR events, alarms, or system rules.

STANDARD NETWORK PROTOCOL SUPPORT

Supports TCP/IP, UDP, HTTP/CGI, and Modbus (RTU/ASCII/TCP/UDP) for seamless communication with NVRs, servers, and centralized platforms.

MULTIPLE COMMUNICATION INTERFACES

Equipped with Ethernet (RJ45), Wi-Fi, RS-485, and CAN Bus interfaces (Wiegand supported on the 16-channel model) for flexible system connectivity.

ADVANCED RELAY CONTROL FUNCTIONS

Supports delay timing, pulse/jog mode, interlock (mutual exclusion), linkage actions, and watchdog functions for reliable event handling.

DIGITAL INPUT AND OUTPUT EXPANSION

Includes digital input/output channels for connecting sensors, push buttons, alarms, or external triggers (expanded I/O on 16-channel model).

INDUSTRIAL-GRADE OPERATING DESIGN

Built for continuous operation in demanding environments with a wide operating temperature range (-10 °C to +85 °C).

COMPACT DIN-RAIL / PANEL-MOUNT FORM FACTOR

Designed for clean installation inside control panels, cabinets, or equipment racks commonly used in security deployments.

SPECIFICATIONS

Parameter	Voltage: 12VDC/24VDC/12VAC/24VAC Current: 1.5A@12VDC Power: 5W Switch Type: NO/NC Input/Output: Digital Input (DI) Digital Output (DO) Working Temperature: -10°C~85°C
Communication Interface	RJ45/WIFI/RS485/CAN BUS
Protocol	TCP server/client | UDP | HTTP GET CGI | Modbus-RTU/ASCII/TCP/UDP | Modbus-RTU Over TCP/UDP | Modbus-ASCII Over TCP/UDP | MQTT | CoAP | WIFI | CAN
Home Automation System	Automation System | Domoticz | Home assistant | OpenHAB | Red-Node
Functions	IP Watchdog (monitor other network device,it will reboot once the device offline) Transparent transmission: RS485/CANBUS transparent transmission to Ethernet WiFi Jogging: control the relay board, it will recover the status within 1s Delay: control the relay board, it will recover the status during 1s or more Timing: set as month/week/day/hour/minute/second as a circle Switch Mutually Exclusive (Relay A and B is mutually exclusive, A is ON then B will be OFF automatically to protect the Motor) Mutually Control (Input 1 of device A control output 1 of device B) Linkage (any inputs can link any relays to active)