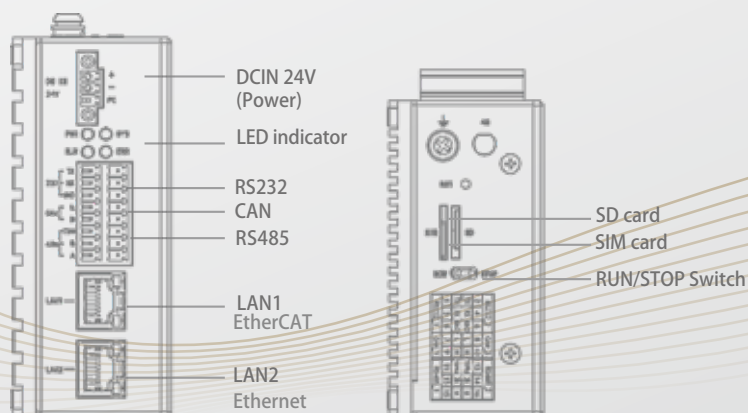# IDEABOX Plus series
Compact PAC
IBX-111

The IBX-111 controller supports simple motion control for up to 8 axes and includes functions for data acquisition, processing, transmission, and device control. The device features one EtherCAT port, one Ethernet port, multiple isolated RS232/RS485/CAN communication interfaces, and supports power failure protection.

The IBX-111 controller is based on the IEC61131-3 programming standard and supports PLCopen Motion Control Lite. It offers a variety of programming language options, optimize program design and troubleshooting support, and ensures program portability with extensive functional support.

IBX-111
Features

DCIN 24V (Power)

LED indicator

RS232
CAN
RS485

LAN1
EtherCAT

LAN2
Ethernet

SD card
SIM card
RUN/STOP Switch

Simple Motion Control Capability

- 8 axes point-to-point motion control；

- Minimum cycle time 1ms；

- Support point-to-point motion, Jog motion, Home motion

Various Fieldbus Interfaces

- Support CANopen, EtherCAT, Ethernet/IP, Profinet, Modbus TCP/RTU

Easy to Adjust

- The development platform fully supports IEC61131-3 standard based OtoStudio V3 programming environment;
- Support remote diagnostic services

Data Protection

- Power failure protection (500ms)

Property Protection

- Encryption chip design for user software protection and end user payment control (Optional)

IBX-111 System Architecture

The IBX-111 controller is designed for industrial automation control scenarios, utilizing technologies such as power supply, data acquisition, control, and communication isolation. The input end is equipped with overvoltage and overcurrent protection. It features stable performance and strong anti-interference capabilities. In addition to meeting traditional logic control requirements, it also integrates motion control functions. It can be widely applied in industries such as coal mining, logistics, packaging, and wind power.

CANopen

MODBUS RTU
MODBUS TCP

Ethernet

PROFI NET®

EtherNet/IP

EtherCAT.

	Order Number	Description
IBX111series	IBX111-201-M7	2 * Ethernet（EtherCAT+Ethernet），2 * RS232（1 for debugging）、2 * RS485、2 * CAN、up to 8 axes point-to-point motion control
	IBX111-201-M8	2 * Ethernet（EtherCAT+Ethernet），2 * RS232（1 for debugging）、2 * RS485、2 * CAN、with 16DI/16DO*1、up to 8 axes point-to-point motion control