

MBs-CBES

Ethernet Communication Board



Introduction

MBs-CBES is an Ethernet and IoT communication board for MERITEK MBs series PLC.

MBs-CBES series is a small size CPU communication expansion board that does not occupy additional module space. Through this MBs-CPU expansion board, PLC can directly apply to MERITEK IoT services without the need of Gateway or HMI*. In addition to IoT applications, by setting the device's IP you can also actively (client mode) or passively (server mode) communicate with other controller or computer through Ethernet.

This MBs board is suitable for all MBs-CPU modules. With this expansion board, remote monitoring and diagnosis of PLCs can be easily achieved.

When operating, this expansion board will occupy the Port 1 and Port 2 communication ports of the host. MERITEK is fixed to MERITEK server operation mode, which can be used for editing and debugging ladder programs. Port2 is used to support Modbus-TCP server operation mode and MERITEK client operation mode. When in operation mode, Port1 and Port2 communication parameters will be automatically planned according to the set operation mode.

Features

- Support MERITEK IoT Services*
- Multi-client accessible
- Modbus Server operation mode
- MERITEK Server and Client operation mode
- IP-based access control
- TCP/IP support 8 connections(Server mode)

Specification

Network Specification

Network interface- 10/100BaseT

Network protocol- TCP/IP

Application protocol- MERITEK, Modbus/TCP, DHCP, DNS, NetBIOS.

PLC interface- Port1, Port 2

PLC interface speed- 307.2Kbps

Operating mode- Server and client

Application ports- Modbus-TCP – 502, MERITEK – 500

Security mechanism- IP-based access control
Configuration methods-via Ethernet with utility program.

Firmware update method- via Internet

IoT Specification

iMonitor- Supported 10 dataitems limited.

iAccess- No Supported.

Common Specification

Indicator(s) : LINK/ACT(Green LED) 、 SPEED(Red LED)

Internal Power Consumption: 5V, 250mA

Operating Temperature : 5~55℃

Storage Temperature : -25~70℃

*MBs-CBES is forward compatible with MBs series PLC produced after 2016 (OS V4.51 and above)

*If MBs-CBES is installed on an incompatible MBs CPU, the CPU will stop and show an error code (R4049=13, (Y0,Y1,Y2,Y3)=(1,0,1,1))