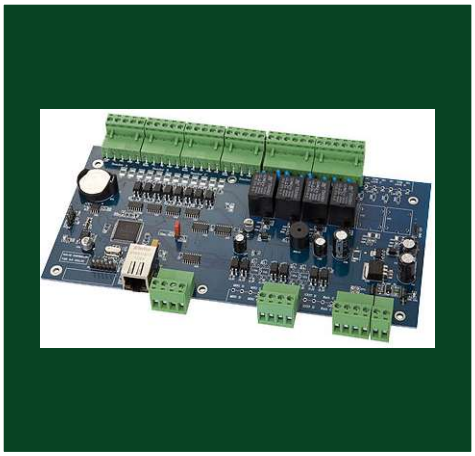
# ESE-E02D-NET

TCP/IP 2 Door / 4 Door Controller

| | | |
|---|---|---|
| TCP/IP CONTROL | 2 / 4 DOOR | WEB SERVER |
| WIEGAND / RS485 | REAL-TIME MGMT | FIRE ALARM I/O |



## Product Overview

The ESE-E02D-NET TCP/IP 2-door / 4-door controller is designed for reliable and flexible access control. It supports 2-door / 4-door access control operation, card validity periods, multiple identification modes and high-capacity data retention. Built-in TCP/IP communication and Web server management allow easy real-time control without requiring additional software installation.

## Key Features

- 100M TCP/IP communication for stable transmission performance.
- Flash memory retains data for up to 10 years without power.
- Connects 4 Wiegand readers and 4 RS485 readers, including mixed installation.
- Optocoupler-protected input interfaces for improved system stability.
- Built-in Web server for management and real-time control without software.
- Up to 16 door-opening time groups per door with flexible identification methods.

## Product Applications

- Access control systems requiring 2-door / 4-door management.
- Residential, commercial and estate door access points.
- Systems requiring Web-based monitoring and remote management.

# Product Features

Controller functions and operation capabilities for ESE-E02D-NET.

- Remote door open / close operation and fire-alarm triggered opening / closing.
- Software or Web operation for door locking, interlocking and anti-passback / anti-tailgating.
- Duplicate card detection disables both duplicated cards.
- Alarm outputs for invalid card, invalid time, door alarm and door opening timeout.
- Wiegand interfaces compatible with 26 / 34 / 37 protocols.
- Supports card validity period, attendance and real-time patrol functions.
- Multi-user and multi-controller real-time management and monitoring.
- Supports camera integration with electronic map for monitoring and video capture.

**Management Advantage**

Built-in Web server and active data transmission support real-time management without being limited by the number of controllers.

# Technical Specifications

Capacity, communication, readers and standard interfaces.

| Item | Specification |
|---|---|
| Card capacity | 30,000 cards |
| Records | 50,000 |
| Alarm capacity | 60,000 |
| Communication method | TCP/IP |
| Communication distance | Unlimited |
| Wiegand protocol | Yes |
| RS485 communication protocol | Yes |
| Opening methods | Single Card, Password, Card + Password, Card or Password, Dual Card, Software Remote, Free Pass, Button, Timer |
| Card readers | 4 |
| Alarm input | 1 |
| Alarm output | 1 |
| Fire alarm input | 1 |
| Fire alarm output | 1 |
| Exit button | 2 |
| Door magnetic input | 2 |

**Model: ESE-E02D-NET | Product: TCP/IP 2 Door / 4 Door Controller**

# Electrical & General Specifications

Power, environmental, physical and communication interface information.

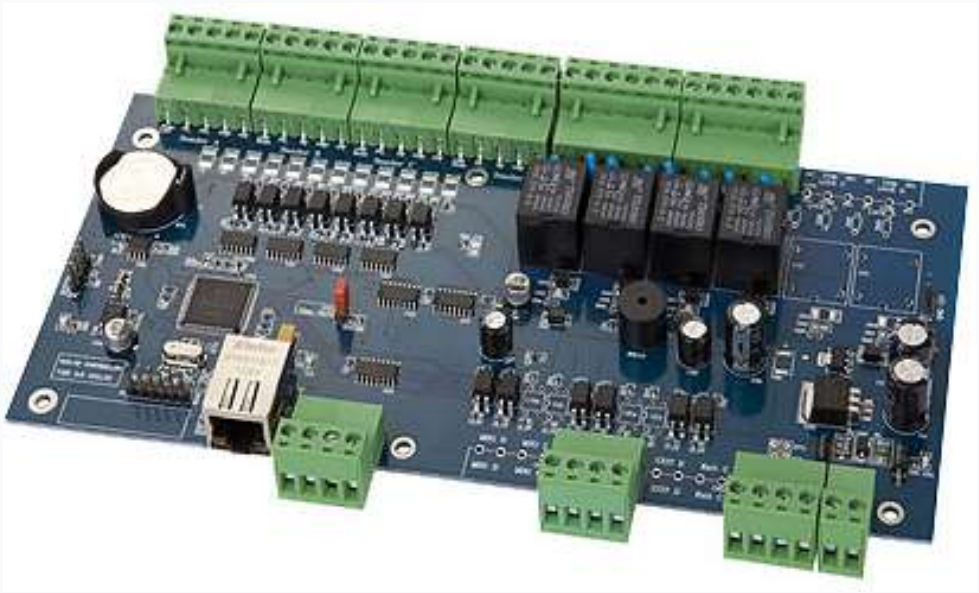
| Item | Specification |
|---|---|
| Electric lock output | 2 |
| TCP/IP communication | 1 |
| RS485 interface | 1 (connects 8 RS485 readers or other RS485 devices) |
| Working voltage | DC 12V |
| Working current | < 80mA |
| Rated power | ≤ 5W |
| Working temperature | < 60°C |
| Working humidity | 10% to 95% |
| Power failure protection | 10 years |
| Motherboard weight | Approx. 250g |
| Motherboard dimensions | (L) 210mm × (W) 125mm × (H) 22mm |
| Shell dimensions | (L) 214mm × (W) 110mm × (H) 37mm |

## Installation Notes

- Supports mixed installation of Wiegand and RS485 readers.
- Compatible with lock, exit button, door magnetic and fire alarm I/O wiring.
- Suitable for professional access control deployments requiring reliable 2-door / 4-door management.

# Components

Motherboard reference image for ESE-E02D-NET.



## Motherboard

This datasheet presents the ESE-branded TCP/IP 2-door / 4-door controller in a clean professional format for quotation, submission, and project documentation use.