

# HOURSIS 2025

## Traffic Control Server



- CPU Processor: 2 quad-core industrial CPUs
- Clock: Supports high-accuracy industrial calibration
- Driver Board: 12 individual two-wire Ethernet I/Os, 24V DC output, 240V AC output
- Network Connection: 4 1000Mbps fibers, 8 RJ45s. 12 two-wire ethernets
- Serial Port: 8 RS-485s
- Multiple Outdoor Cabinet Available

### » Overview

HOURSIS2025 is an up-to-date product by introducing the proven Industrial Internet techniques. It intensively integrates traffic control, traffic detection, traffic image process, traffic cloud data process and etc. in the way of network + computation mode with the built-in control strategies. It can be adapted to the complex traffic management and control sites and compliant with NTCIP protocols.

### » Technical Specification

#### Edge Computing

Supplies rich computing ability, supports secondary customization and development

Applied with real-time operating system, being able to handle concurrent processing for multi tasks

#### Coexistence of multiple business

Being able to handle concurrent tasks including traffic control, video processing, violation monitoring, data retrieval

#### Data Storage

Build-in SSD  
May be expanded up to 2TB

#### Controlling Methods

Acutated Control  
Planned Acutated Control  
Cableless Link (CLF)  
Centralized Control  
Local Optimized Control  
Pedestrian Control  
Manual Control  
Emergency Call Control  
Priority Control

#### Detector Connection

Standard IO ports  
Serial ports  
Wired and wireless networks

#### Timing Plan Support

Up to 128 timing plans may be stored  
Up to 32 steps for each plans  
Customizable lamp sequences  
May control multiple intersections with one machine

#### Schedule Support

Up to 16 date-time schedule  
Up to 16 64 events plans

#### Clock Calibration

GPS or high-accuracy center clock calibration

#### Equipments Driver

Support more than 32 phases drivers  
Support more than 64 detectors input

### » Product specifications

#### Technical Standards

GB25280  
GB/T20999-2007  
NTCIP

#### Safety Protection

Individual amber flashing  
Individual conflict detection  
Double power supply

### Ports Standards

Two-wired ethernet ports	2ESDV-08P
24V DC	2ESDV-08P
220V AC	2ESDV-08P
RS485	2ESDV-08P
IO inputs	2ESDV-08P
1000Mbps ethernet ports	10/100/1000Base-T(X)
100Mbps ethernet ports	10/100bpsRJ45

### Lights Legends

Front side:

- ▼ Running: RUN
- ▼ Power: PWR
- ▼ 24V DC: 24VDC OUT1/OUT2
- ▼ 220V AC: 220AC OUT1/OUT2
- ▼ Phase \*\*: P\*\*
- ▼ Detector \*\*: D\*\*

### Power

220V AC

### Structure

Casement                      Metal

Cooling  
Installation

Passive Radiating  
Standard 19" outdoor cabinet

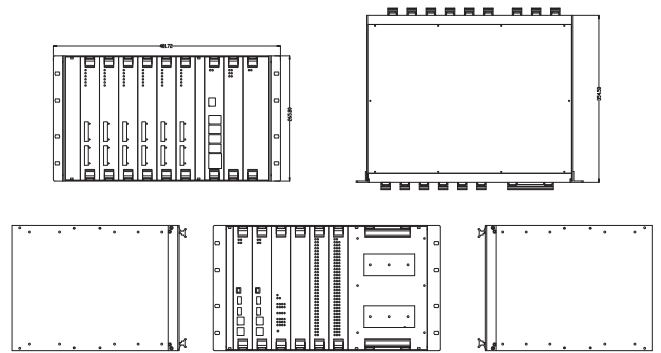
### Working Environment

Working Temperature	-20 ~ +65 °C
Storage Temperature	-40 ~ +105 °C

### Warranty

Warranty                      3 years

## » Mechanical Drawing



#### CPU

Core Controller Unit

- ▼ High-performance system chipset
- ▼ 8 RS485 serial ports
- ▼ 2 USB ports
- ▼ 4 SATA ports
- ▼ RS232 port
- ▼ CPLD based system control
- ▼ Data process and backup
- ▼ Management of Modules
- ▼ Clock calibration
- ▼ Operation status monitoring



#### DDU

Equipments Driver Unit

- ▼ Two-wired ports, RS485 ports
- ▼ Various power supply
- ▼ Providing power and data for auxiliary equipments
- ▼ Operation status display



#### SWB

Switch Unit

- ▼ 4 1000Mbps ethernet upload ports
- ▼ 4 1000Mbps ethernet backup ports
- ▼ GPS chips
- ▼ CPLD signal processing
- ▼ LED driver
- ▼ Data exchanging within and without the system



#### PSP

Phase Status Monitoring Unit

- ▼ RS485 port
- ▼ Display status of up to 32 phases with LEDs



#### SBU

Data Storage Unit

- ▼ 4 SATA ports
- ▼ 5V and 12V power output available
- ▼ Standard CPCI board (233.35mm \* 160mm \* 2mm)



#### DCU

Detector Interface Unit

- ▼ 3 RS485 ports
- ▼ 2 5V power supply
- ▼ 32 I/O inputs
- ▼ External devices I/O detection



#### MSP

Motherboard Status Monitoring Unit

- ▼ 3.3V power supply
- ▼ LED and drivers
- ▼ LINL/ACT network status display



#### MPU

Main Power Unit

- ▼ Proving various power supply including 12V, 5V, 3.3V

