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

Controling 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	Passive Radiating
Installation	Standard 19” outdoor cabinet

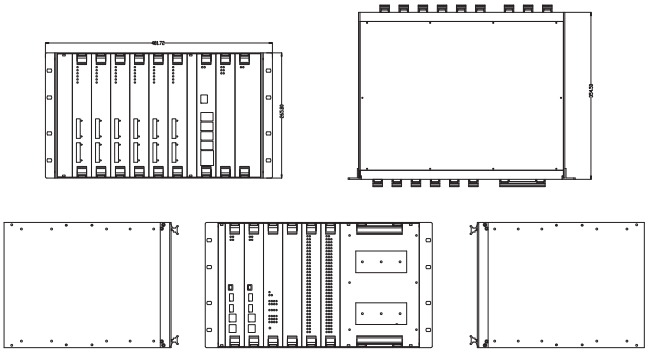
Working Environment

Working Temperature	-20 ~ +65 ℃
Storage Temperature	-40 ~ +105 ℃

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

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

SBU

Data Storage Unit

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

MSP

Motherboard Status Monitoring Unit

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

DDU

Equipments Driver Unit

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

PSP

Phase Status Monitoring Unit

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

DCU

Detector Interface Unit

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

MPU

Main Power Unit

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