

HOYAN ETH-A2N

INDUSTRIAL SERIAL DEVICE SERVER • DATASHEET

Dual-Ethernet serial gateway • serial distribution • Modbus TCP gateway

CE FCC RoHS

Core Specification

CORE SPEC

Model P/N	ETH-A2N-7S2E-D
Processor	Industrial high-speed core (Arm Cortex-M7)
Ethernet	Two independent 10/100BASE-TX (LAN-A / LAN-B)
Serial ports	RS-485 × 6 • RS-232 × 1, isolated transceivers
Protocol	Modbus TCP gateway • RTU master / slave • transparent
Distribution	Aggregation points / reverse routing • NMEA tagging
Interfaces	Type-C USB • TF card storage
Power	9–36 VDC • 5.4 W • –25 to +70 °C • IP30
Web UI	No software to install — works in any browser



ETH-A2N • DIN rail • dual Ethernet + 6 × RS-485 + RS-232

Ports & Communication

Ethernet
10/100 • LAN-A / LAN-B

Serial ports
RS-485 × 6 • RS-232 × 1

Baud rate
Per port, up to 115200

Modes
Master / slave / transparent

Latency
Near zero in transparent mode

Device Integration

Modbus TCP
Slave ID 1 • configurable TCP port

Modbus RTU
Actively polls remote devices

External devices
Daisy-chained, each independent

Type-C Modbus
Read and write points over USB

Serial Distribution

Aggregation
Two TCP ports collect all traffic

Reverse routing
Replies returned to the right source

NMEA tagging
Standard-format source marking

Port binding
Bind to LAN-A or LAN-B

Direction
Bidirectional mapping

Web Interface

Live view
Link and status dashboard

Configuration
Export / import as JSON

Diagnostics
Link and network health checks

Port statistics
Frame counters • activity LEDs

System & Clock

Hardware clock
Battery-backed • survives power loss

Time sync
NTP / browser / manual

Temperature
Built-in sensor • live monitoring

Black box
Full alarm and event history

Access control
IP allow-list • password protected

Storage & Maintenance

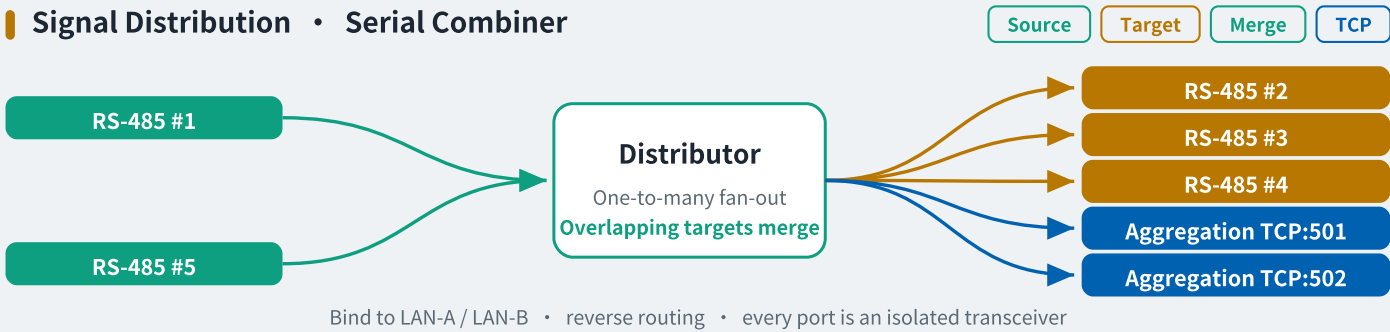
Settings
Retained on power loss + TF card backup

Unit swap
Insert the backup, the new unit self-restores

Logging
Event and data CSV files

Login protection
Lockout on failure • no dead-lock

Signal Distribution • Serial Combiner



Full datasheets & demo units on request

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