

HOYAN ETH-A2L

LoRa WIRELESS GATEWAY • DATASHEET

LoRa long-range wireless gateway • distributed I/O aggregation

NCC

RoHS

CE

Core Specification

CORE SPEC

Wireless	Licence-free band • external antenna
Coverage	Building to building, deck to deck
Range extension	Add a repeater station where range runs short
Data rate	Seven selectable rates
TX power	Four selectable levels
Trade-off	Lower rate for range, higher rate for throughput
Wiring	None — no cable to pull between sites



ETH-A2L • DIN rail • external antenna • Type-C

Operating Roles

Transparent

An invisible cable between two ends

Master

One unit holds every remote point

Slave

Field devices report back automatically

Repeater

Relays onward; each hop halves throughput

Modbus Integration

Fan-out

One master serves 8 remote stations

Queuing

One request at a time — no collisions

Tag table

Every remote point in one place

Freshness

Status flag on every record

Reliability

Retry

Automatic — a dropped link will not flood the network

Link quality

Rate adapts to conditions

Self-test

Settings re-verified at power-up

Buffering

Transmit and receive buffered against loss

Optional & Compatibility

Modular

Unused functions stay hidden

Simplicity

Fewer options on screen, faster to commission

Consistency

Configuration pages match the wired model

Interworking

Fully compatible with ETH-A2E — no rework

Ports & Wiring

Ethernet

10/100 Mbps • RJ45

Serial

RS-485 ×2 • RS-232

Antenna

External, SMA connector

Console

Type-C USB

Mounting

DIN rail • triple-unit assembly

Web Interface

Setup

Whole master configured on a single page

Role switch

Change operating role with one click

Slave sync

Parameters checked against the master

Routing page

Point and click to choose where data goes

Access

Login required • password changeable

Ordering • HOYAN I/O Expansion Modules (optional)

TSF-A2-DI16

16-ch digital input

TSF-A2-DO16

16-ch digital output

TSF-A2-AI6

6-ch analogue input

TSF-A2-AO6

6-ch analogue output

TSF-A2-RT6

6-ch temperature input

TSF-A2-DO6TR

6-ch relay output

Wireless variant of the ETH-A2E; the two models can be mixed on one system | Specifications subject to change without notice

Full datasheets & demo units on request

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