Hisense VRF systems to MQTT

Item number: IN770AIRXXSO000

Connect Hisense multi-indoor unit systems to cloud and IoT platforms using MQTT, for real-time control, monitoring, and energy optimization. This solution allows the integration of up to 4 indoor units.



Hisense to MQTT - up to 4 indoor units

Features and benefits

- **SSL/TLS encryption**
  Protect the HVAC system data using the latest industry standard security protocols.
- **Support for QoS 0 and QoS 1**
  Choose the data delivery service that best fits your project requirements, balancing performance and data accuracy.
- **Bidirectional communication**
  The gateway operates as both an MQTT publisher and subscriber, sending real-time status data and receiving commands from the control system.
- **Scan function**
  Accelerate commissioning by scanning the HVAC bus to automatically detect all connected units and their available control signals, including outdoor unit indicators.
- **Connectivity with leading MQTT brokers**
  Integrate your project with major cloud platforms such as AWS and Azure, as well as standard MQTT brokers like Mosquito.
- **Remote certificate management**
  Avoid on-site visits and simplify maintenance while ensuring maximum security and continuous operation.
- **Persistent MQTT sessions**
  Disable the Clean Session option to retain subscriptions and queued messages, ensuring uninterrupted HVAC monitoring even after network interruptions.
- **Selectable signals**
  Reduce broker load and operational costs by selecting only the required signals from each indoor unit for your project.
- **Predefined topics and unified variable mapping**
  Simplify integration and improve scalability with standardized MQTT topics and a brand-agnostic data model.
- **A single hardware for multiple brands and protocols**
  Avoid compatibility issues. This gateway supports all currently included brands in the 700 Series Air and is future-ready for new integrations.

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General

Capacity	XXS: Up to 4 indoor units
Net Width (mm)	106
Net Height (mm)	90
Net Depth (mm)	58
Net Weight (g)	194
Packed Width (mm)	125
Packed Height (mm)	85
Packed Depth (mm)	140
Packed Weight (g)	356
Operating Temperature °C Min	0º
Operating Temperature °C Max	60º
Storage Temperature °C Min	-30
Storage Temperature °C Max	60
Power Consumption (W)	3
Input Voltage (V)	For DC: 12 .. 36 VDC ±10%, Max: 250 mA For AC: 24 VAC ±10 %, 50-60 Hz, Max: 127 mA Recommended voltage: 24 VDC, Max: 127 mA
Power Connector	3-pole
Configuration	Intesis MAPS
Installation Conditions	This gateway is designed to be mounted inside an enclosure. If the unit is mounted outside an enclosure, precautions should always be taken to prevent electrostatic discharge to the unit. When working inside an enclosure (e.g., making adjustments, setting switches, etc.), typical anti-static precautions should always be followed before touching the unit.
AC Model Compatibility	This gateway is compatible with any Hisense VRF unit communicating through the H-Link network.

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General

Content of Delivery	Intesis gateway and installation manual.
Not Included (in delivery)	Power supply not included.
Mounting	DIN rail mount (bracket included), Wall mount
Housing Materials	Plastic
Packaging Material	Cardboard
Warranty (years)	3 years

Identification and Status

Product ID	IN770AIRXXSO000_MQT_HIS
Country of Origin	Spain
HS Code	8517620000
Dual Usage	No

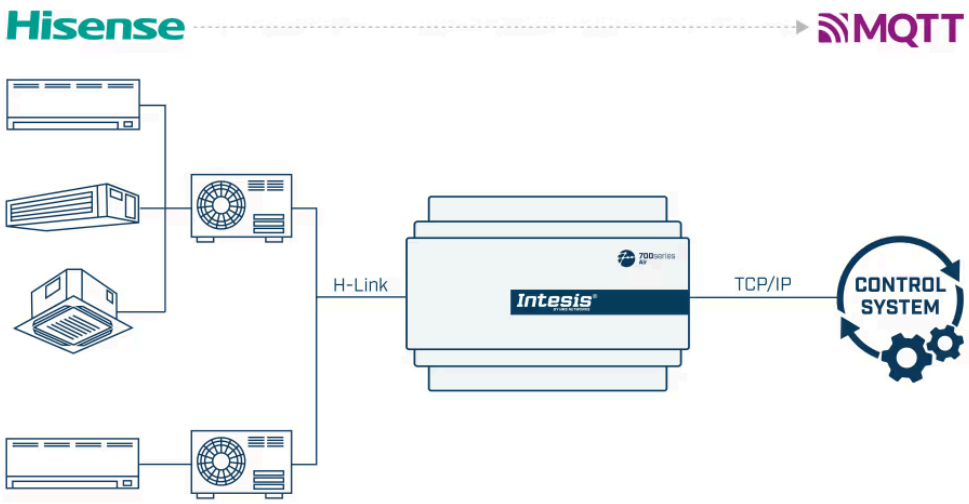
Physical Features

Connectors / Input / Output	Power supply, EIA-485, KNX, Ethernet, HVAC port, Binary inputs (dry contact), Console port USB.
LED Indicators	Gateway and communication status.
Push Buttons	Factory reset.
DIP & Rotary Switches	EIA-485 serial port configuration.
Contains Battery	No

Certifications and Standards

Product Certifications	CE, CB, UKPSTI, UL
WEEE Category	IT and telecommunications equipment

Use Case



Integration example.



Use Intesis MAPS to change the protocol: BACnet, Modbus, KNX, MQTT, or Home Automation