

IQTM528

Controller



Overview

Introducing the new IQ528, a medium sized controller with an initial base license supporting 28-points of onboard I/O, expandable to 52 I/O points.

Designed to help address mid-sized systems/installations while also providing best in class control and resilience. Ideal for use with medium to large AHUs, and smaller heating or cooling systems (boilers, chillers, VT circuits, CT circuits, DHWS).

Part of the Trend IQ5 family, IQ528 enhances the existing platform for you to build on into the future. There are 4 key considerations that your Building Energy Management System (BEMS) must take into account:



SECURITY

IQ5 is designed to meet ISA/IEC 62443-4-2, and has been developed using processes that are fully certified to ISA/IEC 62443-4-1. This ensures a risk-based approach to prevent and manage any potential threat.



COMPLIANCE

IQ5 is compliant with the very latest specifications i.e. BACNet B-BC and meets modern IT standards. This means IQ5 should integrate seamlessly with other building systems such as lighting and operate securely within your IT infrastructure.



OCCUPANT WELLBEING AND PRODUCTIVITY

IQ5 manages your building in accordance with your KPI's. It monitors, measures and provides feedback on your working environment, enabling you to set, control and deliver your priorities.



PROTECTING YOUR INVESTMENT

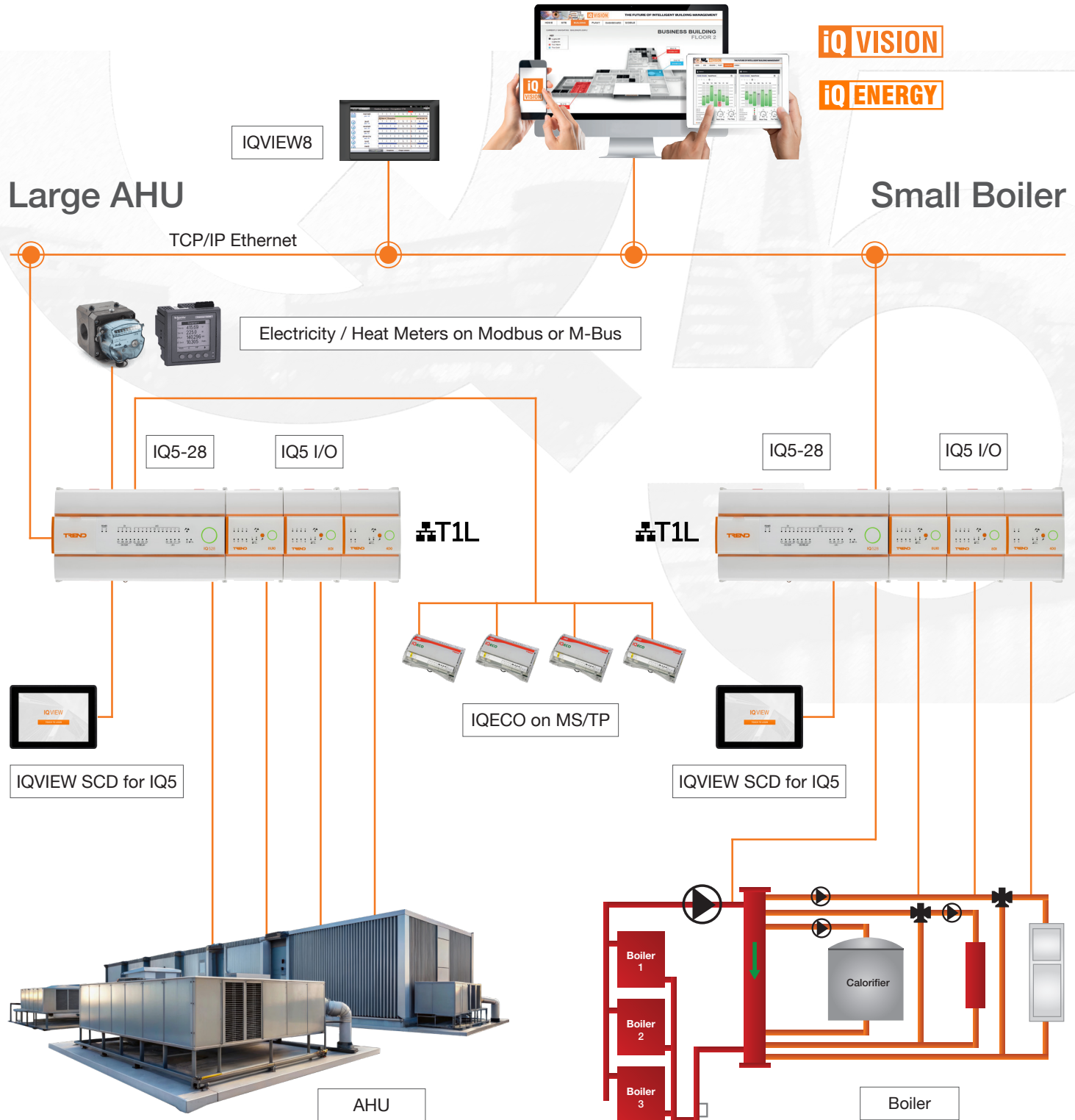
IQ5 will ensure you have the flexibility to adapt and extend a site throughout a building's life. Whether your built environment uses Trend IQ1's, IQ2's, IQ3's or IQ4's, the latest enhancement of IQ5 will provide seamless control by communicating with earlier controllers.

Key features

- 28 onboard I/O points:
16UIO, 8DO, 4DI, expandable to 52-points
- T1L high-speed secure bus for IQ5 I/O modules
- Designed to meet ISA/IEC 62443-4-2 SL2
- Compatibility Mode for communicating with previous controller generations
- LAN Adaptor for communicating to devices on Trend current loop networks
- 2x 1GB Switched Ethernet ports
- 2x RS485 ports: Modbus, M-Bus, MS/TP and XNC integration

IQTM528

System Architecture





IQ528 Pre-Licensed

PART NUMBER	GENERAL DESCRIPTION	SHORT DESCRIPTION
IQ528-52X000000000	Controller Licensed for Additional I/O	IQ5-28-52-24
IQ528-52X000S00000	Controller Licensed for Additional I/O & IQVIEW SCD	IQ5-28-52-SCD-24
IQ528-28X1000000000	Controller Licensed for Integration Functionality	IQ5-28-28-INT50-24
IQ528-52X1000000000		IQ5-28-52-INT50-24
IQ528-28X0N00000000	Controller Licensed for Network Routing Functionality	IQ5-28-28-NC-24
IQ528-52X0N00000000		IQ5-28-52-NC-24
IQ528-28X1N00000000	Controller Licensed for Integration & Network Routing Functionality	IQ5-28-28-INT50-NC-24
IQ528-52X1N00000000		IQ5-28-52-INT50-NC-24

Controller, I/O modules, licenses and accessories

PART NUMBER	DESCRIPTION
IQ5-28-24	IQ528 Controller with 28 onboard I/O, expandable to 52 I/O channels, with initial base license supporting; 28 I/O channels. PSU - 24 Vac/dc
IQ5-IO-16UIO	IQ5 I/O Module with 16 universal input/output channels
IQ5-IO-8UIO-HOA	IQ5 I/O Module with 8 universal input/output channels with hand-off-auto display
IQ5-IO-8UIO	IQ5 I/O Module with 8 universal input/output channels
IQ5-IO-4UIO	IQ5 I/O Module with 4 universal input/output channels
IQ5-IO-16DI	IQ5 I/O Module with 16 digital input channels
IQ5-IO-8DI	IQ5 I/O Module with 8 digital input channels
IQ5-IO-8DO-HOA	IQ5 I/O Module with 8 digital/relay output channels with hand-off-auto display
IQ5-IO-8DO	IQ5 I/O Module with 8 digital/relay output channels
IQ5-IO-4DO	IQ5 I/O Module with 4 digital/relay output channels
IQ5-IO-4DO-G	IQ5 I/O Module with 4 digital/relay output channels for low voltage and current
IQ5-LAN-ADPT	Trend LAN Adaptor for IQ500 and IQ528 controllers
IQ5-IO-ADPT-2	Pack of 2 I/O bus cable adapters (for IQ500, IQ528 controllers and IQ5 I/O modules)
IQ5-IO-END-10	Pack of 10 spare end covers (for IQ500, IQ528 controllers and IQ5 I/O modules)
IQ528-52-BASE	IQ528 base license 52 points
IQ5-NC-BASE	IQ500 and IQ528 base license for NC functionality
IQ5-INT-50-BASE	IQ500 and IQ528 base license for Modbus, Mbus and XNC integration 50 points
IQVIEW-SC-V-IQ5	IQ500 and IQ528 IQVIEW SCD license
IQ528-28-52-UP	IQ528 upgrade license from 28 to 52 points
IQ5-INT-50-UP	IQ500 and IQ528 upgrade license for Modbus, Mbus and XNC integration 50 points
IQ5-NC-UP	IQ500 and IQ528 upgrade license for NC functionality

IQTM528

Documents



TECHNICAL DOCUMENTATION

IQ528 Controller Data Sheet (TA201512)

IQ5 I/O Module Data Sheet (TA201481)

INSTALLATION INSTRUCTIONS

IQ528 Controller Installation Instructions – Mounting (TG201513)

IQ5 Controller and IO Installation Instructions – Configuring (TG201483)

IQ5 I/O Module Installation Instructions – Mounting (TG201484)

For more information, please visit the [IQ5 WEBPAGE](#)
or contact one of our team today.

For more information
visit trendcontrols.com

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