

The KOTE KS32 controller is a flexible, high performance automation controller. Utilising exclusively open tools and applications, the KS32 is suitable for use in a large range of applications without the need for proprietary tools or software. Featuring web based configuration and programming, flow based visual code is completed live using a standard web browser, via embedded Node-RED.



With large onboard storage and extensive communication options, the KS32 has the power and flexibility to fit a multitude of application from a simple HVAC automation controller or IoT data pump to a commercial irrigation or wastewater management device. The input/output terminal layout allows for easy installation in retrofit situations.

Base Specifications

Input Power	
Voltage	24V ac/dc ($\pm 20\%$)
Minimum Consumption	0.75A
Maximum Consumption	0.75A + Output Channel External Loads (max 80mA per channel)

Environmental	
Operating Temperature	0 to 65 °C (32 to 150 °F)
Storage Temperature	20 to 65 °C (-4 to 150 °F)
Relative Humidity	0 to 90% non-condensing

Physical	
Length / Width / Height	200mm x 128mm x 50mm
Weight	600g
Mounting Type	DIN Rail

Inputs	
Type	16 x Software Configurable Universal Inputs
Resolution	12 Bit
Voltage	0 to 10Vdc
Current	0 to 20mA
Resistance	50 Ohm to 50K Ohm
Pulse	Max 4 pulses per second
Digital	On/Off – Volt free contact

Outputs	
Type	16 x Software Configurable Universal Outputs
Resolution	10 Bit
Voltage - Analog	0 to 10Vdc (80mA max per output – thermally protected)
Voltage – Digital	0 to 12Vdc (80mA max per output – thermally protected)
Current	0 to 20mA

Communication Ports	
Ethernet	2 off, isolated, RJ45. Can be bridged for daisy chain communications
RS485	2 off, isolated, terminals

Feature List

Processors

Application	Rockchip RK3328, 1.3Ghz, 64 bit, Quad core,
Motherboard	STM32L431 MCU, 80Mhz, 32 bit single core
Pro Option	Cortex-A53 ARM, 1.8Ghz, 64 bit Quad core

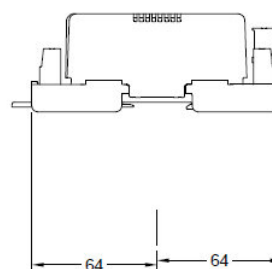
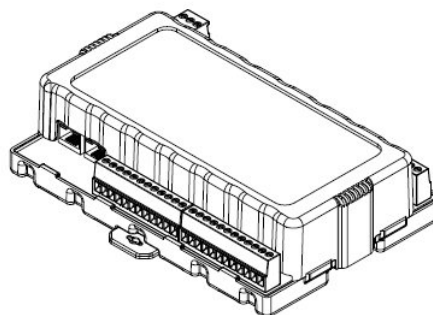
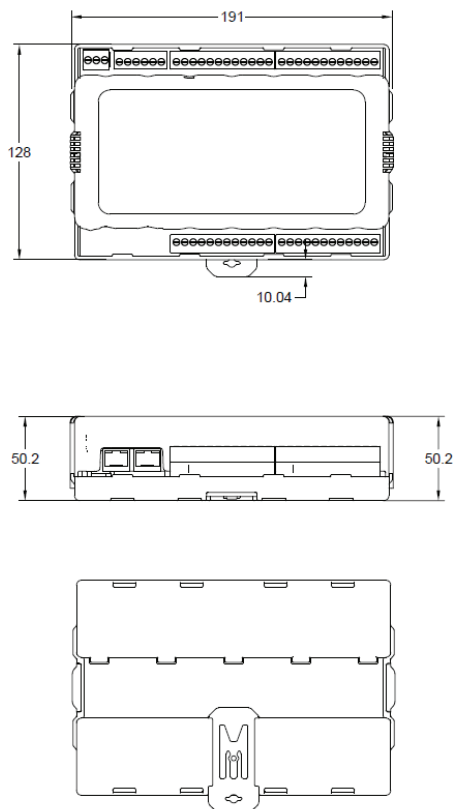
Software Features

GUI	Embedded HTML, CSS, Javascript graphics
Cyber Security	Inbuilt VPN & Firewall
RTC	Realtime clock with NTP Support
Trend Log	Large database storage with visualisation
Database Support	MSSQL,/Azure, Oracle, PostgreSQL, MySQL, SQLite
Protocol Support	Modbus, Bacnet, MQTT(local or remote Broker), HTTP, LoRaWAN
Device/Service Integration	Amazon, Google, Apple, Samsung
Notification	Email, SMS, Twitter, Slack, Messenger

Pro Features

LCD	6.5" LCD Touchscreen display
Wireless Communications	4G, WiFi, Bluetooth, NFC
Storage	4Gb RAM, 64Gb Non-volatile Storage
Battery	5000mAh battery backup (up to 5 hrs backup support)
Camera	8MP
Multimedia	Audio & Video streaming

KS32 - Pro Dimensions



KS32 - Dimensions

