VT-IO-DAM0444

Industrial I/O Converter



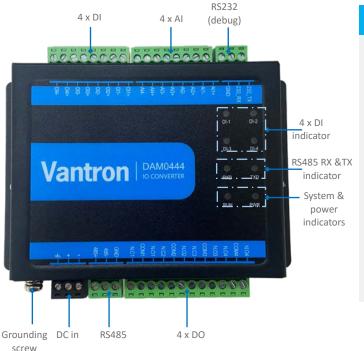
Product Brief

VT-IO-DAM0444 industrial I/O converter is equipped with multiple digital input (DI), digital output (DO), and analog input (AI) channels, providing versatile connectivity options for industrial applications. It is specifically designed to efficiently convert both digital and analog signals into RS485 bus signals, enabling seamless uplink data transmission through serial communication protocols like Modbus RTU. With the converter, edge data from PLCs and sensors in the industrial field can be effortlessly transferred to a range of industrial devices, including gateways, routers, and industrial DTUs.

VT-IO-DAM0444 is constructed with a compact and rugged design, ensuring durability and reliability in harsh industrial environments.

Additionally, its flexible installation options enhance its adaptability to various industrial setups

Exterior and Features



VT-IO-DAM0444				
Multiple DI/AI/DO connectivity options				
RS485 for uplink data transfer (Modbus RTU)				
Ultra-low power consumption				
Efficient fanless heat dissipation				
Hassle-free setup and operation				
Wide operating temperature range				
Flexible installation for quick deployment				

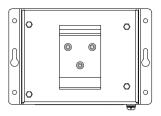
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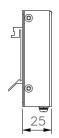


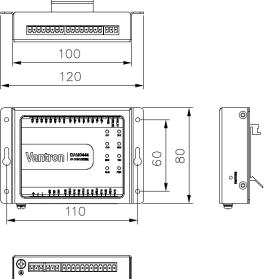
VT-IO-DAM0444 Industrial DTU Datasheet

MCU STM32F030C8T6			
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System Memory 8KB	8KB		
Storage 64KB			
1 x RS232 for device configuration & debugging (TTL, 115200, 8Na	L)		
Serial port 1 x RS485 for data communication (TTL, 115200, 8N1)			
4 x Al (Measurement signal: 4~20mA; Accuracy: 3%;			
I/Os Al Resolution: 12-bit; Impedance: 240 Ω)			
DI 4 x DI (Dry contact; Frequency: 1kHz)			
DO 4 x DO (Contact capacity: 30V/500mA)			
1 x Power indicator			
1 x System status indicator	1 x System status indicator		
System Control 4 x DI channel indicator			
2 x RS485 working indicator (RXD & TXD)			
Button 1 x Restore button (1~3s: Restart the device; > 3s: Factory reset)			
Enclosure Metal			
Dimensions 120mm x 80mm x 25mm (including the mounting brackets)			
Mechanical Installation Wall mounting, DIN rail mounting			
IP rating IP30			
12V DC			
Power 1 x Power terminal (3-pin, 3.81mm)			
Consumption < 5W (load)			
Uplink protocol Modbus RTU			
Software OS RTOS			
Operating: -40°C ~ +85°C			
Temperature Storage: -40°C ~ +85°C			
Environment Humidity Operating: 5%-95% RH (Non-condensing)			
Condition EMC level EMC Level 3			
Certification FCC, IC, CE			

Product Outlines









Ordering Information

Ordering No.	I/O	Voltage	Installation
VT-IO-DAM0444	RS485, RS232 (debug), AI, DI, DO	12V DC	Wall mounting, DIN rail mounting

Packing list	
VT-IO-DAM0444 industrial I/O converter	1
DI, DO, AI terminal connector	1 for each
DC power connector	1

Optional accessories	
12V 1A DC Power adapter & power cord	1 kit
Debug cable	1

Since its establishment in 2002 by two Silicon Valley entrepreneurs, Vantron Technology has been at the forefront of the connected IoT devices and IoT platform solutions. Today, Vantron boasts a global customer base that includesI Fortune Global 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud platforms.

Vantron offers IoT communication devices that enable multi-protocol connections for industrial equipment and local data processing through $edge\ computing.\ With\ abundant\ wired\ and\ wireless\ connectivity\ options,\ remote\ operations\ and\ maintenance\ have\ become\ easier\ than\ ever.$ Such devices can be deployed across different sectors such as smart retail, medical and warehousing. Moreover, Vantron's IoT solutions are designed to facilitate enterprises' digital transformation, streamline operations, enhance productivity, etc.

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