VT-IO-DAM0444

Industrial I/O Converter



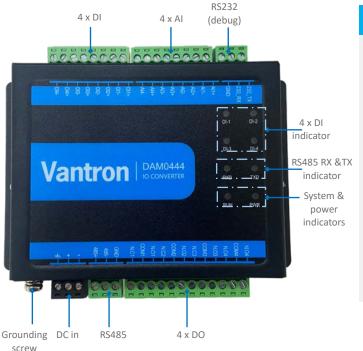
Product Brief

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

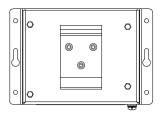
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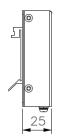


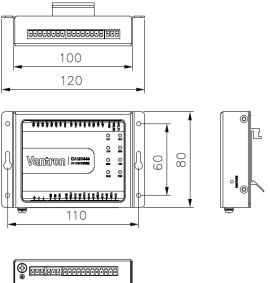
VT-IO-DAM0444 Industrial DTU Datasheet

VT-IO-DAM0444					
System	MCU	STM32F030C8T6			
	Memory	8KB			
	Storage	64KB			
		1 x RS232 for device configuration & debugging (TTL, 115200, 8N1)			
	Serial port	1 x RS485 for data communication (TTL, 115200, 8N1)			
	AI	4 x AI (Measurement signal: 4~20mA; Accuracy: 3%;			
I/Os		Resolution: 12-bit; Impedance: 240 $\Omega)$			
	DI	4 x DI (Dry contact; Frequency: 1kHz)			
	DO	4 x DO (Contact capacity: 30V/500mA)			
		1 x Power indicator			
	150: 1: 1:	1 x System status indicator			
System Control	LED indicator	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			
Advaloration I	Dimensions	120mm x 80mm x 25mm (including the mounting brackets)			
Mechanical	Installation	Wall mounting, DIN rail mounting			
	IP rating	IP30			
	Input	12V DC			
Power		1 x Power terminal (3-pin, 3.81mm)			
	Consumption	< 5W (load)			
	Uplink protocol	Modbus RTU			
Software	OS	RTOS			
Environment Condition		Operating: -40°C ~ +85°C			
	Temperature	Storage: -40°C ~ +85°C			
	Humidity	Operating: 5%-95% RH (Non-condensing)			
	EMC level	EMC Level 3			

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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