

DE20-BT Industrial DTU



Product Brief

As part of Vantron's overall solution for industrial automation and device communication, Vantron DE20-BT is an entry-level database transaction unit (DTU) that features a serial port and Bluetooth 5.0 for simple-process data collection.

DE20-BT supports low-rate carrier network (CAT M) and multiple data centers. With such network protocols as PPP, IP, and TCP/UDP supported, real-time device data is accessible and unvarnished transmission is feasible.

Thanks to its compact size and less than 5W power consumption, DE20-BT saves great trouble for users in its installation and maintenance. Besides, it supports 5V~36V wide input voltage and -20°C ~ +70°C industrial-grade extended temperature range, and implements a fanless heat sink for device heat dissipation, making it a cost-effective IoT solution for customers. DE20-BT is particularly designed for power distribution monitoring, oil & gas transportation, environment monitoring, etc.

Exterior and Features



DE20-BT



Serial port & BT for data communication



Ultra-low power consumption



High reliability



Long service time



Efficient fanless heat dissipation



Wide input voltage & temperature range

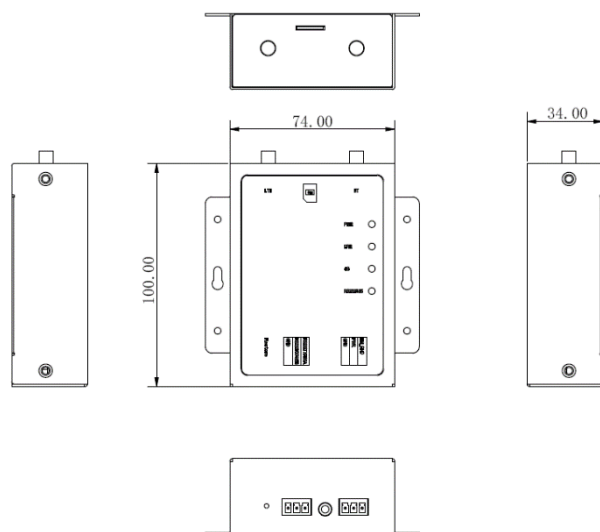


Vanity free, easy to deploy

DE20-BT Industrial DTU Datasheet

DE20-BT		
Communication	4G LTE	CAT M
	Bluetooth	BT 5.0, BLE coded PHY supported
I/Os	Serial port	1 x RS232/RS485 for data communication 1 x RS232 for device configuration
	LED indicator	1 x 4G LTE status indicator 1 x Serial port status indicator 1 x Power indicator 1 x Error indicator
System Control	Button	1 x Restore button
	Dimensions	100mm x 74mm x 34mm (Enclosure only)
Mechanical	Installation	Wall mounting
	IP rating	IP30
Power	Input	5V~36V 1 x Power terminal
	Consumption	< 5W
Software	Configuration tool	VT Dtool
	Multiple data centers	Supported
	Network protocol	PPP, IP, TCP/UDP
	Southbound protocol	Modbus
	Northbound protocol	MQTT
Environment Condition	Temperature	Operating: -20°C ~ +70°C Storage: -40°C ~ +85°C
	Humidity	Operating: RH 5%-95% (Non-condensing)
	EMC level	EMC Level 2
	Certification	FCC, CE, UL

Product Outlines



Ordering Information

Ordering No.	4G/LTE	LTE antenna	BT antenna	Mounting bracket
DE20-BT	CAT M	Yes	Yes	Yes

Packing list	
DE20-BT industrial DTU	1
4G LTE antenna	1
BT antenna	1
DB9 male to 3.5mm serial adapter cable	1
Terminal connector	2

Optional accessories	
12V DC Power adapter & power cord	1 kit
DC power connector	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 includes several Fortune 500 companies. Its product lines cover edge intelligent hardware, IoT communication devices, industrial displays and BlueSphere cloud device management platform.

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.