

Industrial Cellular Modems & Edge Gateways

Quick reference selection guide for SCADA integration, remote telemetry, and out-of-band management. Built for extreme industrial environments.

VT-DTU300 Ultra-compact 4G DTU for RS485 telemetry.	VT-DTU500C Standard RS232/485 gateway with edge parsing.	VT-DTU500E Advanced multi-interface edge router (Eth/Wi-Fi).
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HARDWARE & PHYSICAL INTERFACES			
RS485 Port	1 (Terminal Block)	1 (Terminal Block)	1 (Terminal Block)
RS232 Port	—	1 (DB9)	1 (DB9)
Ethernet (RJ45)	—	—	1 (LAN/WAN)
Wi-Fi (802.11 b/g/n)	—	—	Yes (AP/Client)
Input Voltage	DC 9~24V	DC 9~24V	DC 9~48V
Operating Temp	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Mounting	DIN-Rail Standard	Wall / DIN-Rail	Wall / DIN-Rail
NETWORK CONNECTIVITY			
Cellular Speeds	LTE CAT 1	LTE CAT 1 / CAT 4	LTE CAT 1 / CAT 4
Hardware Watchdog	Yes	Yes	Yes
Antenna Interface	1x SMA (Cellular)	1x SMA (Cellular)	2x SMA (Cell/Wi-Fi)
SOFTWARE & PROTOCOLS (EDGE PARSING)			
Transparent TCP/UDP	Yes	Yes	Yes
Modbus RTU to TCP	Yes	Yes	Yes
Modbus to JSON/MQTT	Advanced Edge Parsing	Advanced Edge Parsing	Advanced Edge Parsing
MQTT over SSL/TLS	Yes (Encryption)	Yes (Encryption)	Yes (X.509 Certs)
Virtual COM (VCOM)	Yes	Yes	Yes
Offline Data Storage	Yes	Yes	Yes

Typical Deployment Scenarios

VT-DTU300: Ideal for straightforward meter reading (water/gas) and tight cabinets. Features impressive edge parsing and SSL support despite its tiny footprint.

VT-DTU500C: The industry standard for Solar Inverters and HVAC systems requiring native MQTT/JSON cloud integration and dual RS232/485 ports.

VT-DTU500E: Built for complex control cabinets requiring PLC programming (via Ethernet) combined with legacy RS485 data acquisition over cellular.