

VT-LTE400

INDUSTRIAL-GRADE 4G CELLULAR ROUTER



Overview

The VT-LTE400 industrial-grade 4G router is a high-performance communications gateway meticulously developed for demanding IoT and M2M networking requirements. It integrates advanced routing, switching, 4G LTE, WLAN, and encryption technologies to meet diverse data transmission needs.

Designed for extreme environments such as modern factories, mining sites, and remote monitoring systems, the VT-LTE400 provides continuous, reliable, and real-time communication services to ensure seamless production line operations.

Key Features

- High-Performance Core:** Powered by an industrial 32-bit processor capable of rapidly processing various network protocols.
- Multi-Interface Convergence:** Equipped with 4x LAN ports, 1x WAN port, WiFi interface, and a 4G interface.
- Smart Link Failover:** Features 4G/wired smart backup function, automatically switching to active networks to maximize uptime.
- Versatile Network Topologies:** Supports WAN to LAN/WiFi, WiFi to LAN/WiFi, and 4G to LAN/WiFi configurations.
- Extreme Environments:** Engineered to operate reliably in temperatures ranging from -40°C to +85°C.

Hardware Specifications

CELLULAR & WIRELESS INTERFACES	
LTE Standard	CAT1. EGSM900, DCS1800, LTE-FDD B1/B3/B5/B7/B8/B20
Transmission Rate	LTE: Max 10Mbps (DL) / Max 5 Mbps (UL) GPRS: Max 85.6Kbps (DL) / Max 85.6Kbps (UL)
WLAN Standard	2.4GHz 802.11b/g/n (Supports Relay, Bridge, Mesh, Roaming)
Antenna Connectors	1x 4G Antenna, 1x WiFi Antenna (Standard 50Ω/SMA female)
SIM Slot	1x Medium card slot (Voltage: 3V, 1.8V)

Software & Advanced Features

Configuration Mode	WEB Page configuration (Default IP: 192.168.8.1)
Networking Capabilities	Static IP, DHCP Client/Server, VLAN Switching
Security & Routing	Firewall zones, Static Routing, Port Forwarding (NAT), Host name Mapping
Diagnostics & Logging	System Log, Kernel Log, Real-time Graphs, Channel Analysis, Network diagnostics
System Management	Firmware web-upgrade, Configuration backup/restore, Factory reset

Environmental Limits

Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 120°C (-40°F to 248°F)
Ambient Relative Humidity	0 to 95% (non-condensing)

Application Scenarios

The VT-LTE400 provides high flexibility for industrial automation and remote SCADA monitoring:

- Establishing internal sub-nets in environments with limited IP address resources.
- Converting Ethernet-ported PLCs to WiFi to connect to existing networks seamlessly.
- Utilizing WiFi relay/bridging functions (including mesh networking) to expand communication range.
- Autonomous failover: If the primary WAN port loses connectivity, the router quickly switches to the 4G network.

Ordering Information

Model Name	Description
VT-LTE400	Industrial 4G Router, CAT1, 4xLAN, 1xWAN, WiFi, 9-24VDC

Dimensions

Height: 89.2 mm

Width: 83.6 mm

Depth: 37.6 mm

* Standard DIN-Rail or Wall mountable