## VT-M2M series Industrial Gateway

# VT-M2M-C335L

Entry level, low power consumption ARM gateway

## Product Brief Introduction

VT-M2M-335L gateway is an entry-level and low-power consumption gateway launched by Vantron based on ARM architecture, which can meet the IOT applications in various industrial scenarios. The VT-M2M-335L gateway adopts Ti cortex-A8, 600MHz low-power processor, 512MB DDR and 8GB RAM. It also adopts vantron's self-developed XOS operating system. The VT-M2M-335L supports LTE 4G, Wi-Fi and Bluetooth wireless networks, as well as LAN networks.VT-M2M-335L also supports MODBUS and other industrial protocols in the continuousdevelopment of more protocols. It can collect data of various field PLC and sensors. VT-M2M-335L also supports accessing the Vantronbluesphere cloud DMP platform and uploading various data to the cloud platform for presentation. VT-M2M-335L adopts industrial designwith guaranteed quality and reliability. It is an ideal choice for your IOT application.

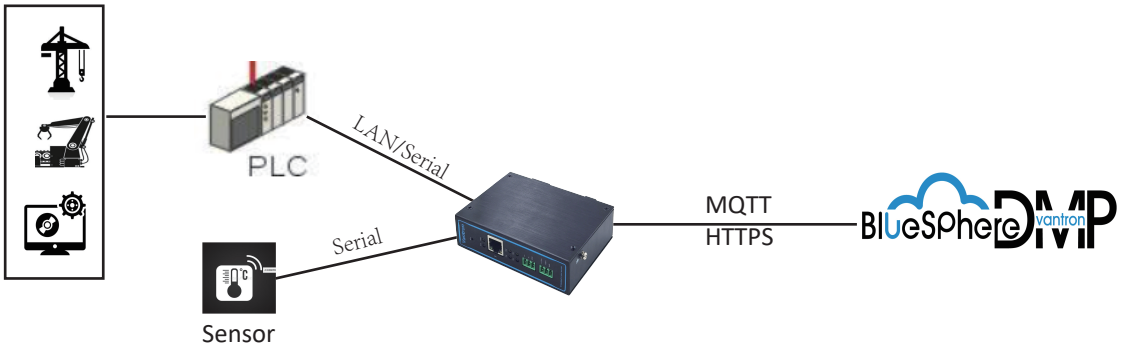
VT-M2M-C335L gateway support 4G and other wireless functions, supports a variety of industrial protocols, can connect a variety of PLC and sensors, support data upload cloud platform, support large-scale deployment, and can be widely used in the following industries:

industrial automation,

water treatment,

oil and gas transmission, etc.

## Application Topology

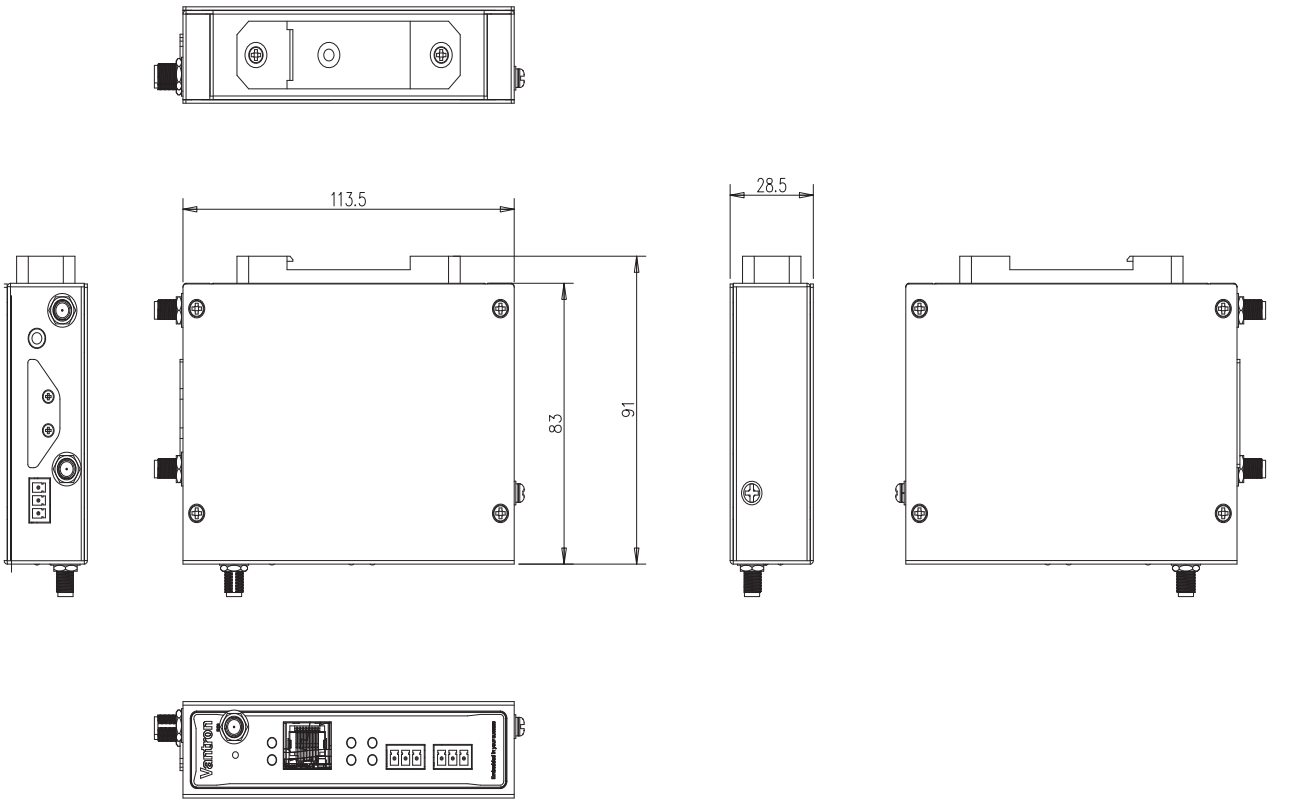


# VT-M2M-C335L Data Sheet

## Features and Highlights

- Support 4G LTE CAT 1, CAT 4 Wi-Fi and EtherNet with Link backup
- Fully industrial-garde design, ready for any condition
- Easy for management and large-scal deployment
- Support Modbus TCP & Modbus RTU, OPC UA Client, EtherNet/IP, and ISO-on-TCP, more industrial protocol coming soon
- Support Vantron DMP cloud platform

## Product Outlines



# VT-M2M-C335L Data Sheet

## Software Specification

| | |
|---|---|
| OS | Vantron OS |
| 4G | Optional. Support LTE CAT M/1/4 |
| WLAN | Optional. Support AP & Client |
| Bluetooth | Optional. Bluetooth 4.2 |
| Configuration method | Local. Remote configuration |
| Upgrade method | Local. Remote OTA upgrade |
| Network tool | Ping detection, Traceroute, Nslookup |
| Network guide | One-key configuration of LTE, Wi-Fi and Ethernet |
| Traffic statistics | Calculate per month/week/day |
| Network reliability | Failover, LTE, Wi-Fi, Ethernet Link Backup |
| Static routing | IP filtering, IP forwarding, NAT, Port forwarding, Proxy, Routing table, DHCP client/server |
| VPN | Optional (OPEN VPN, PPTP, IPsec, L2TP) |
| Firewall | SYN-flood protection, port Forwards, Custom Rules |
| Multi-level permission | Support |
| Device management | SNMP v1/v2c/v3 |
| Industrial protocol | Modbus TCP/RTU, OPC UA, EtherNet/IP |
| Edge computing | Support |
| User-programmable | Provide SDK |
| IPK import | Support |
| Development language support | Optional (Python, Lua, Node.js, J avaVM, Node-Red) |
| Device management platform | Vantron BlueSphere DMP |
| Standard platform | MQTT, or HTTPS data cloud platform |
| Multiple languages | Default Chinese and English (Default), other languages (Optional) |
| NTP | Client & sever |
| Log | Upload device log, data collection log, data upload log, SysLog |

## Hardware Specification

| | |
|---|---|
| CPU | TI, ARM Cortex-A8, 32-Bit, 600MHz |
| RAM | 512MB, DDR3 |
| ROM | 8GB,EMMC |
| Ethernet | 1x100M |
| SD card | 1xMicro SD card |
| COM Port | 1xRS485,1xRS232/RS485, (Optional isolated) |
| LED | 2xUART2(RXD and TXD)2xUART4(RXD and TXD), 1 for power, 1 for status of SYS |
| RTC | Supported, separately RTC chip, power by button cell |
| Control | Button of Restored to Default setting |
| GPIO | 4xGPIO (Optional) |
| Dimensions | 155x105x50mm (Box) |
| Install Brackets | 113.5mmx82mmx28.5mm |
| Enclosure | Sheet Metal with black Color |
| Input | Wide Range 9-36VDC, 3x3.81mm Black Terminal |

### Environment Condition

| | |
|---|---|
| Operating Temperature: | -20℃~+60℃ |
| Storage Temperature: | -30℃~+85℃ |
| Humidity | 5-95%RH at 25-35 (Non-Condensation) |
| Cooling Mode | Fan less |

## Accessories

| | |
|---|---|
| Cable | 1PCS |
| Power Adaptor | 1PCS |
| WiFi/BT Antenna | 1PCS |
| LTE Antenna | 1PCS |

## Order Infomation

| | | | |
|---|---|---|---|
| VT-M2M-C335L | -x | -xx | -xx |
| | 1：CAT1 | BW：With WLAN&Bluetooth | IO：With GPIO |
| | 4：CAT4 | NA1：NO WLAN&Bluetooth | NA2：Without GPIO |
| | 0：No LTE | | |
| Order code example | VT-M2M-C335L-0BWNA2：Without LTE, Support Wi-Fi & Bluetooth. | | |
| | VT-M2M-C335L-1BWNA2：Support LTE CAT 1, Support Wi-Fi & Bluetooth. | | |
| | VT-M2M-C335L-0NA1IO：Without LTE, no Wi-Fi & Bluetooth, with GPIO. | | |

VANTRON was founded in May 2002 by two Silicon Valley engineers (Bo Wei, Ph.D., UC Berkeley; Easen Ho, Ph.D., MIT) with offices located in San Francisco Bay Area, Chengdu, China, and Thailand (for manufacturing operation).

Major Business: Embedded Computer Systems (with or without displays) and IoT Gateway Solutions – offer embedded computer boards/devices, IoT Gateways, and solutions for various industries such as for medical, transportations, fitness, retail, digital signage, industrial control, and home and business securities etc..

Team: 200+ staff members (including ~150 engineers), extensive experience in embedded system design, development, and manufacturing.

Pursue Long-Term collaboration with our partners/customers.

Can provide “TURN-KEY” solution (from development to manufacturing) for embedded systems.

ISO9001: 2008 certified.

Key CPU processor partnerships with NXP/Freescale, TI, Intel, Mediatek, and Rockchip