

— 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 continuous development of more protocols. It can collect data of various field PLC and sensors. VT-M2M-335L also supports accessing the Vantron bluesphere cloud DMP platform and uploading various data to the cloud platform for presentation. VT-M2M-335L adopts industrial design with guaranteed quality and reliability. It is an ideal choice for your IOT application.

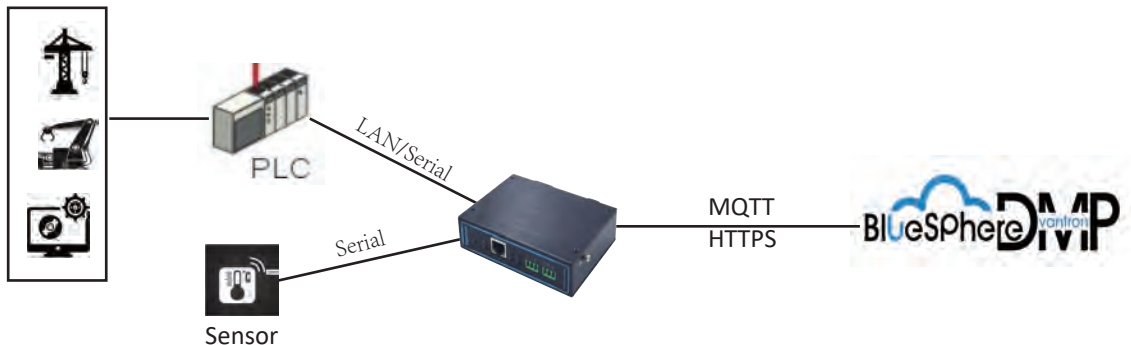
VT-M2M-C335L gateway support 4G and other wireless functions, supports a variety of industrial protocols, can connect a variety of PLC and sensors, support data upload cloud platform, support large-scale deployment, and can be widely used in the following industries:

industrial automation,

water treatment,

oil and gas transmission, etc.

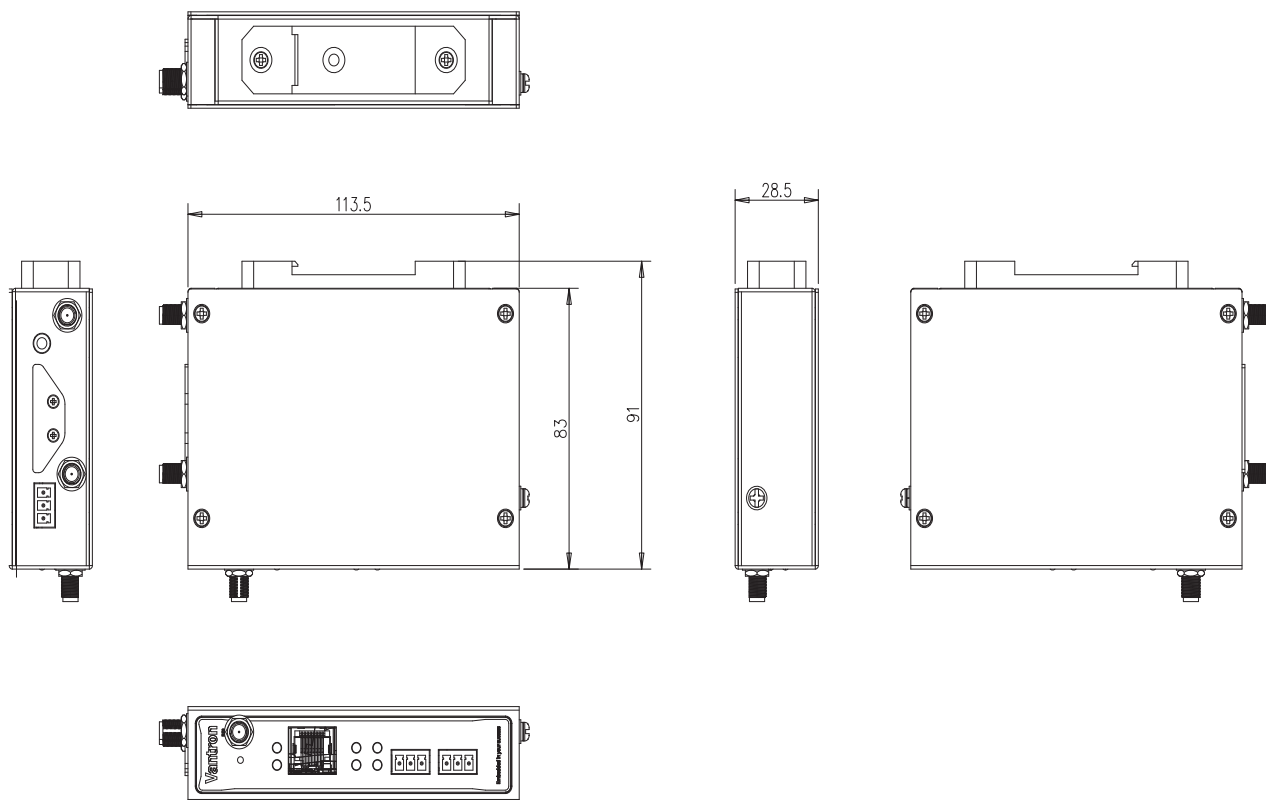
— Application Topology



Features and Highlights

- Support 4G LTE CAT 1, CAT 4 Wi-Fi and EtherNet with Link backup
- Fully industrial-grade design, ready for any condition
- Easy for management and large-scale 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



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°C~+60°C
Storage Temperature:	-30°C~+85°C
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

	-X	-XX	-XX
VT-M2M-C335L	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