H685m Series Cellular 5G Modem Datasheet

Product Introduction

The H685m series Cellular 5G Modem is a compact, ruggedized industrial wireless USB + RJ45 Ethernet modem providing global wireless cellular network connectivity, where cellular signal available, with 4G/3G/2G fallback capabilities for ensured access to the internet and private networks anywhere for wireless M2M and IoT.
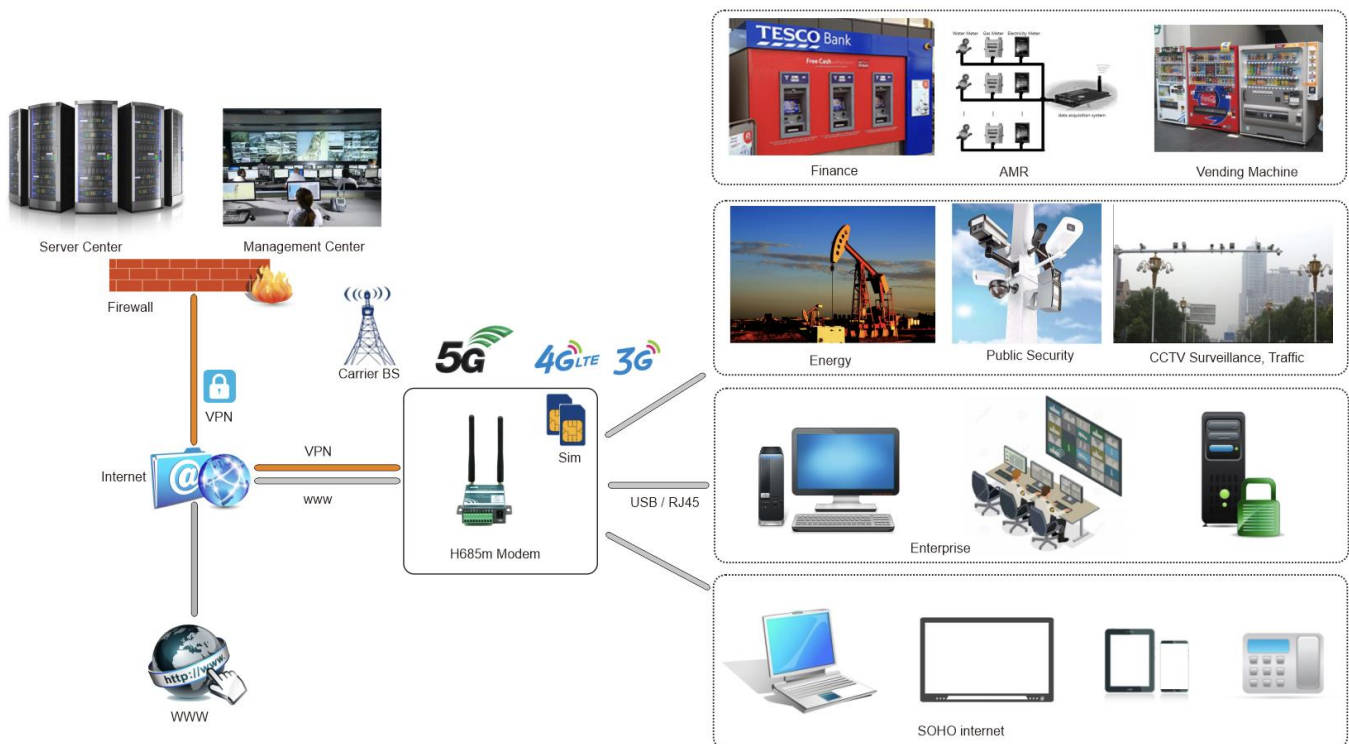
In addition to the robustness, reliability, security, friendly-using, the H685m is competent to be engineered to protect against extreme temperatures, humidity, shocks, vibrations, dust, reverse polarity, and transient voltage, which is widely used in more than twenty industrial fields, such as CCTV security surveillance, AMR, vehicle, retails, vending machines, power control, water schedule, traffic, oil field, weather forecast, environmental protection, street lamp control, post, bank and many other fields.

Key Features

1) Built-in 5G industrial cellular module with sim card slot, insert SIM/UIM card to work directly
2) Wide range DC input 5-40V, option 5-60V
3) 2G/3G/4G/5G failover for fixed line broadband connections

4) External antenna connectors for high gain antennas replacement

5) Support At command

6) High speed USB3.0 port, ESD protection

7) 2.5Gbps Ethernet RJ45 port

8) MIMO supported

9) Robust Metal Case and anti-lightning protection. Provide IP30 protection

10) Dual power input for failover

11) GPS/GNSS option

12) Desktop, Wall-mount and Din-rail mount of installation

Typical Topology

Features & Specifications

Wireless	
Mobile Networks	5G

	4G LTE (FDD/TDD); 3G UMTS WCDMA 2G GSM EDGE/GPRS

Interface

Antenna	50Ω SMA female interface *4~5, external detachable; Antenna for Main Cell, MIMO Cell, GPS
Led	Power indicator Data indicator
UIM/SIM	1.8V/3V
USB	USB 3.0 female
RJ45	2.5Gbps RJ45 Ethernet

Power

Power supply	DC5V-40V, option DC5V-60V, typical 12V1A or 12V2A; Dual Power Inputs / Power Failover; Two types of input jack for DC 2.5mm DC jack * 1 Terminal Block * 1
Power consumption	Peak: 700mA@+9VDC Average: 85mA@+9VDC Idle: 30mA@+9VDC
PoE	PD

Software

Minimum System Requirements	Windows, Linux, Mac OS, IOS, Symbian, Android, other OS
At command	Support at command; Packed with GUI software
GPS/GNSS (Option)	GPS, GNSS, Beidou

Physical

Operating Temperature	Work temperature: -35°C to 75°C Storage temperature: -40°C to 85°C

Humidity	95% Maximum (Non-condensing)
Dimensions	PCBA: 96mm x 56mm x 14mm With case: 100mm x 60mm x 21mm
Weight	230g (not including the antenna) 380g (including the antenna) 860g (including all accessories, without package)
Electromagnetic compatibility	anlistatig test: Class 3 Radio electromagnetism test: Class 3
Others	
Warranty	1 Year, can extend up to 5 years
Package Contents	The H685m Series Modem USB cable / RJ45 cable Power Adapter Antenna Other accessories depends on option features