HL7812 LTE-M and NB-IoT Module for Industrial IoT

Global LPWA module with 2G fallback offering ultra low power, small footprint and deep coverage

For battery-powered or low power deployments, our HL7812 module supports 3GPP's Release 14 features and offers best-in-class power consumption, high transmit power and the highest level of security from the edge to the cloud. This ensures field longevity and reduces the risk of your mission critical applications such as asset tracking, smart energy, smart cities and more.

Specifications

4G LTE	
Category	Cat-M1/NB2 (NTN)
Frequency Bands	B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B23, B25, B26, B28, B66, B86, B255, B256
2G	
Technology Supported	GSM, GPRS
Frequency Bands	850, 900, 1800, 1900
DATA SPEED	
Peak Download Rate	Cat-M: 590 kbps, Cat-NB2: 127 kbps
Peak Upload Rate	Cat-M: 1100 kbps, Cat-NB2: 158 kbps
LOCATION SERVICES	

Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33
info@alcom.be | www.alcom.be
Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands
Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl

DATA SPEED	
Satellite Systems	GPS & Glonass

EMBEDDED SOFTWARE	
Firmware	Secure boot, Pre-certified firmware

SYSTEM DRIVERS	
System Drivers	Linux (Driver: Standard ECM)

INTERFACES	
UART	1 X 8-wire
USB	1
ADC	2
GPIO	8
Tx ON Indicator	1
SIM interface 1.8V/3V	1

HARDWARE	
CF3 Form Factor	LGA
Dimensions	15x18x2.4mm
Temperature Range	Industrial Grade: -40°C / +85°C

APPROVALS	
Regulatory	PTCRB, GCF, FCC (USA), ISED (Canada), CE(EU), JRF/JPA (Japan), RCM (Australia)
Carrier	Verizon, AT&T, Orange, Docomo, Deutsche Telekom

EMBEDDED SIM	
EMBEDDED SIM	Optional Ready-to-Connect (Semtech USIM)*

CLOUD SERVICES	
CLOUD SERVICES	Free FOTA upgrades, Connectivity Management option, Device Management option