

AN150A

Compact NB-IoT Module with Ultra-low Power Consumption



Compact Size



B5/B8/B20/B28



Extended Temperature Range -40°C to +85°C



LCC Package



Multiple Serial Ports



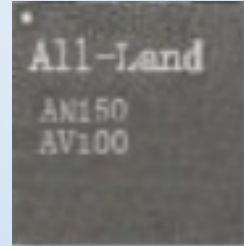
Embedded Internet Services Protocols



All-Land Enhanced AT Commands

Key Benefits

- ◇ Compact-sized NB-IoT module
- ◇ Ultra-low power consumption
- ◇ Super high sensitivity
- ◇ LCC package makes it easy for large volume manufacturing
- ◇ Compatible with GSM/GPRS module, easy for future upgrading
- ◇ Embedded with abundant Internet service protocols
- ◇ Fast time-to-market:
Reference designs, evaluation tools and timely technical support minimize design-in time and development efforts



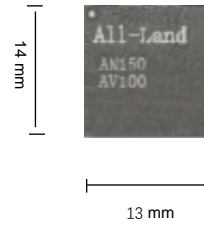
AN150A is a high-performance NB-IoT module with low power consumption. The ultra-compact 14 × 13 × 1.8mm profile makes it a perfect choice for size sensitive applications.

AN150A adopts surface mounted technology, making it an ideal solution for durable and rugged designs. The low profile and small size of LCC package allow AN150A to be easily embedded into low-volume applications and provide reliable connectivity with the applications. This kind of package is ideally suited for large-scale manufacturing which has strict requirements for cost and efficiency.

Due to compact form factor, ultra-low power consumption and extended temperature range, NX08A is the best choice for a wide range of M2M applications, such as smart metering, smart city, security and asset tracking, white goods, agricultural and environmental monitoring, etc. It is able to provide a complete range of SMS and data transmission services to meet client-side demands.

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General Features

Frequency Band	AN150A: B8 (900MHz) B5 (850MHz) B20(800MHz) B28(700MHz)
Package	LCC
Pin Number	58
Supply Voltage Range	1.8~3.7V Typical: 3.0V
Operation Temperature	-40 °C ~ +85 °C
Dimension	14 x 13x 1.8mm
Weight	
AT Command	3GPP TR 45.820 and enhanced AT commands
Download	UART (Only SWD is supported currently)
SIM Application Toolkit	h

Data Transmission

Data Transmission	100bps<bit rate<100kbps (TBC)
Protocol Stack	NB-IOT protocols

SMS

Point-to-point MO and MT

Text/PDU Mode

Electrical Characteristics

Output Power	23dBm (TBC)
Sensitivity	-135dBm (TBC)
Power Consumption	15uW (TBC)

Interfaces

SIM/USIM	1
UART	2
ADC	1
RESET	1
Antenna	1

Certificates

Approval	TBD
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* Under development