

AML540/ AMM5400

Cat.NB1 & Cat.M1 Module



AM Telecom’s AML540/AMM5400 supporting both Cat. NB1(NB-IoT) and Cat. M1 is the state-of-the-art telecommunication module for a narrow band IoT based service, and it adopted Qualcomm IoT-dedicated chipset which fully supports both Cat. NB1 and Cat. M1 in one single module based on 3GPP Rel 13. It helps your rapid and simple implementations on low power IoT services by incorporating with optimal networks for customers in various industry segments.

Strength of AM Telecom Module

1. Reliable Service Quality Assurance

- Our Cat. NB1 / Cat. M1 modules connect to 4G LTE networks and can deliver superior quality and more reliable service, compared to other competing technology standards using unlicensed frequency bands.
- It is more secure based on SIM authentication and can provide services reaching premises, underground and outskirts regions without radio shadow area.

2. Simultaneous Cat. NB1(NB-IoT) and Cat. M1(eMTC) support

- Our one single module can support both Cat. NB1 and Cat. M1 at the same time and it enables to support global markets without additional development or modifications by the same module.

3. Various Form Factors

- We can support our customers for their flexible device/solution developments by providing the embedded modules in LGA, M.2 and even other form factors that they require.

4. Compact & Lower Power Module

- It adopts Qualcomm’s state-of-the-arts IoT chipset and enables a development of devices in compact and lower power design.
- It consumes a minimum power by adopting PSM and eDRX technology.

5. Versatile Service Features

- Our modules supports GNSS such as GPS, GLONASS, etc. and also VoLTE & voice based on AMR-NB.
- It also supports Linux and ThreadX OS.

6. Remote Maintenance (carrier’s network requirements and billing policy to be reviewed)

- AM FOTA as our own cloud service can support firmware update and remote diagnostics/monitoring to assure reliable services to customers for a long period.

Key Features

- Reliable Service Quality
- Simultaneous Cat.NB1 & Cat.M1 Support
- Compact & Low Power Module
- Versatile Service Features
- Remote Maintenance



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SPECIFICATIONS

		AML540	AMM5400
4G LTE	Frequency Bands	Band 1/3/5/8/9/18/19/20/26/28 Other bands available as per customer's requirement	Band 1/3/5/8/9/18/19/20/26/28 Other bands available as per customer's requirement
	Category	Cat.M1, Cat.NB1	Cat.M1, Cat.NB1
LTE Peak Speed (Download / Upload)		M1(300kbps/375kbps), NB1(20kbps/60kbps)	M1(300kbps/375kbps), NB1(20kbps/60kbps)
Main Chipset		Qualcomm MDM9206	Qualcomm MDM9206
LBS	Satellite	GPS, GLONASS, BeiDou, Galileo	GPS, GLONASS, BeiDou, Galileo
Connector Type		116 Pin SMD PAD	M.2
Interfaces	USB	USB 2.0 High-Speed	USB 2.0 High-Speed
	UART	4 pin	4 pin
	I/O Voltage	1.8V	1.8V
	Wake On WAN	1 Pin	1 Pin
	Debug (JTAG)	7 Pin	7 Pin
	Antenna	Main, GNSS	Main, GNSS
	USIM	4 Pin	4 Pin
Air Performance	Maximum RF Output power	LTE 23dBm	LTE 23dBm
Operation Voltage		3.0 ~ 4.2 V	3.0 ~ 4.2 V
Drivers		Windows 7, 8.1, 10, Android, Linux	Windows 7, 8.1, 10, Android, Linux
Dimensions		21 x 21 x 2.2mm	30 x 42 x 3.0mm
Environmental conditions	Storage Temperature	-40°C to +90°C	-40°C to +90°C
	Operation Temperature	-40°C to +85°C	-40°C to +85°C

AM Telecom has been always standing in the front line to deliver optimal technologies and solutions by meeting various customers' requirements in telecommunications and M2M industry for the last 15 years. We support our customers to implement their solutions and systems at a low cost with efficient way as we hold cumulative technology enabling comprehensive IoT solutions along with devices supplied to our customers. We can make customer's products and services much stronger by considering the needs of our customers from the product design stage of the IoT solutions.



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