Data Sheet

IP MeSH Radio Module 5G 1W

Model#LKAV-6310

Introduction

The LKAV-6310 is a wireless mesh module works at 5GHz band. It supports data rate up to 96Mbps, is a lightweight module which suits the on-site video capture and can be used in UAV application and emergency communications in the fields of fire protection, rescue, surveillance, police and military, etc.

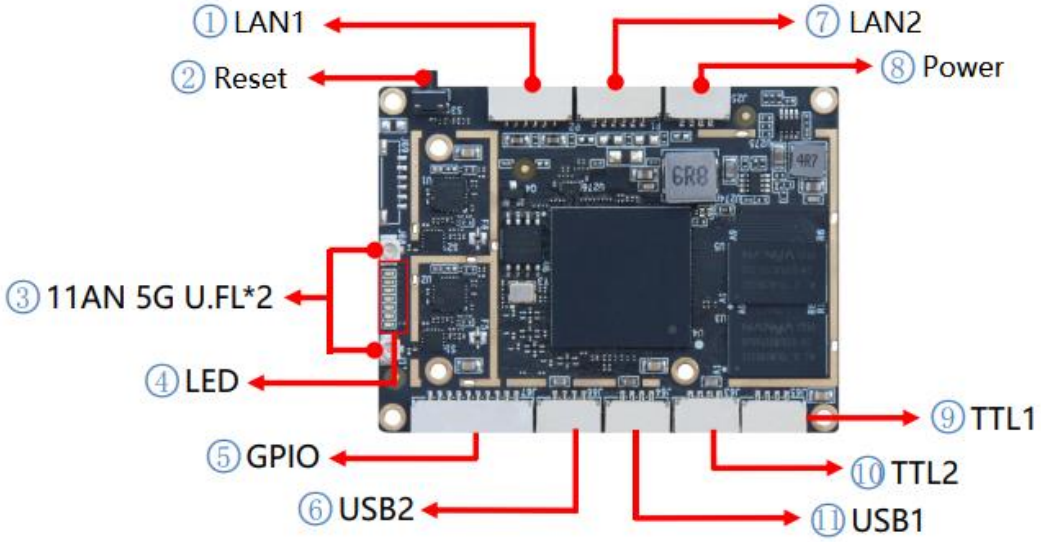
Features

- Frequency 5.180~5.825GHz
- MIMO 2x0.5W power output
- Data rate up to 96Mbps
- Range up to 5km LOS
- Supports 2.4G WiFi
- Supports up to 9 hops and 64 nodes
- AES256 encryption

Specification

Frequency	5.180~5.825GHz (802.11AN)
RF Bandwidth	5M/10M/20M/40MHz
Output Power	1W (30dBm)
Receiving Sensitivity	Max -97dBm
Interfaces	IPX *2 LAN*2 GPIO*1 USB*2 TTL*2 DC*1
Max Throughput	96Mbps@40MHz
Modulation Type	BPSK/QPSK/16-QAM/64-QAM/256-QAM
Management	WEB
Nodes Number	No less than 64 nodes
Baud Rate	1200bps~115200bps (Default 115200bps)
Encryption	AES256
Power Input	7V-24V DC
Power Consumption	Average 6W
Dimensions	60x45x8mm (L x W x H)
Weight	16g
Working Temp.	-40℃~ +65℃
Storage Temp.	-45ºC ~ +85ºC
Working Humidity	5% ~ 95% (Non-condensing)

Panel Description



① LAN1 port

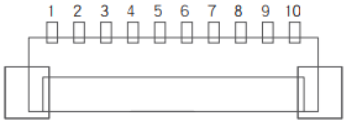
6	5	4	3	2	1
RX4-	RX4+	TX4-	TX4+	GND	GND

② Reset button

③ IPX antenna interface x2

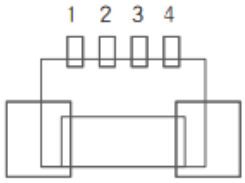
④ LED indicator

⑤ GPIO interface



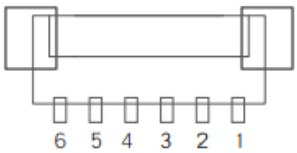
1	2	3	4	5	6	7	8	9	10
GND	GPIO14	GPIO18	GPIO19	GPIO15	GPIO20	GPIO21	GPIO4	GND	3V

⑥ USB2 port



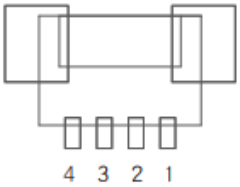
1	2	3	4
USBM-5V	USB-D3-	USB-D3+	GND

⑦ LAN2 port



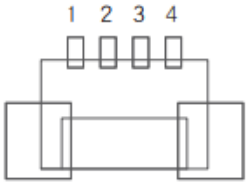
6	5	4	3	2	1
RX0-	RX0+	TX0-	TX0+	GND	GND

⑧ Power port



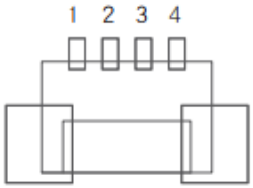
4	3	2	1
GND	GND	+24V	+24V

⑨ TTL1 port



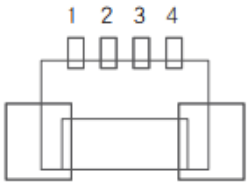
1	2	3	4
USBM-TTL	MCU-RXD-1	MCU-TXD-1	GND

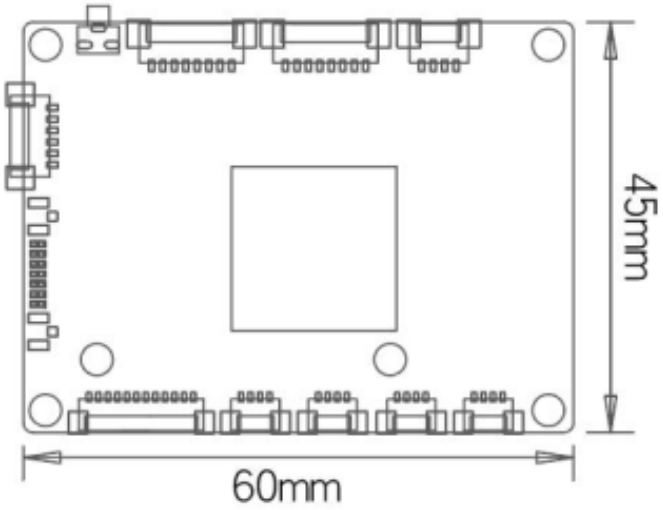
⑩ TTL2 port



1	2	3	4
USBM-TTL	MCU-RXD-2	MCU-TXD-2	GND

⑪ USB1 port



1	2	3	4
USBM-5V	USB-D1-	USB-D1+	GND

Dimensions