



APM CO., LTD.

AAP-I2458-4G-V

AC1200 Dual Band 4G LTE cat6 WiFi Modem VOLTE Router



#### Features:

- Support 11A/b/g/n/AC wireless 1200mbps
- Built-in 4G LTE modem for mobile connections up to download150Mbps/upload50mbps
- Support 4G LTE Cat6 300mbps/50mbps
- Support 4G LTE Cat4 150mbps/50mbp
- 2 X 10/100/1000mbps Lan Port
- Support 2X 4 dbi 4G LTE fix antenna
- Support 2X 5 dbi wireless detachable antenna
- Built in dual band wireless antenna
- Build-in 4G module
- Built-in Standard Sim Slot
- Support 1X RJ11 for Phone Set connect



4G Base Station



AAP-I2458-4G-V





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**Specifications:**

**Main Chip:** Realtek RTL 8685PB

**Flash:**16MB

**4G Module:** Mini PCIE cat6

**4G Band:**

**AAP-I2458-4G/GV-EP06A**

LTE-FDD: B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66

**2×CA:** B2+B2/B5/B12/B13/B26/B29;

B4+B4/B5/B12/B13/B26/B29;

B7+B5/B7/B12/B13/B26/B29;

B25+B5/B12/B13/B25/B26/B29;

B30+B5/B12/B13/B26/B29;

B66+B5/B12/B13/B26/B29/B66

**WCDMA:** B2/B4/B5

**AAP-I2458-4G GS/GV -EP06E**

LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32

LTE-TDD: B38/B40/B41

**2×CA:** B1+B1/B5/B8/B20/B28;

B3+B3/B5/B7/B8/B20/B28;

B7+B5/B7/B8/B20/B28;

B20+B32; B38+B38; B40+B40; B41+B41

**WCDMA:** B1/B3/B5/B8

**WIFI Antenna:** 5dbi 2x detachable antenna

**4G antenna:** 3dbi fixed antenna

**Wireless Standard :** 802.11a/b/g/n/ac

**Wireless Data Rate :**

802.11a/g: up to 54Mbps

802.11b: up to 11Mbps

802.11n: up to 300Mbps

802.11ac: up to 867Mbps

**Wireless Output Power :**

2.4GHz: < 20dBm

5GHz: < 20dBm



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**Wireless Receive Sensitivity :**

802.11a:  $-94 \pm 1$  dBm

802.11b:  $-91 \pm 1$  dBm

802.11g:  $-85 \pm 1$  dBm

802.11n:  $-84 \pm 1$  dBm

802.11ac:  $-66 \pm 1$  dBm

**Wireless Security :**

WEP, WPA, WPA2, WPA Mixed, WPS

**Physical Interface :**

One Standard Sim Slot

2X Gigabit RJ-45 ports (LAN)

2X 4G Fixed Antenna

2X Detachable Antenna

1X RJ-11 phone Jack

WPS push button

Reset button

On/Off Button

DC Jack

**Operation Temperature :**  $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$

**Storage Temperature :**  $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$  ambient temperature

**Humidity :** 10 ~ 85% typical

**Power Consumption :** 24W (Maximum)

**Power Requirement :** DC 12V/2A



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## Cat6 Support list as following

Frequency	EP06-E	EP06-A	EP06-LA	MG06-APAC (under planning)	
LTE	LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32 <sup>o</sup>	B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66	B2/B3/B4/B5/B7/B8/B20/B28	B1/B3/B5/B7/B8/B18/B19/B21/B26
	LTE-TDD	B38/B40/B41	\	\	B38/B39/B40/B41
	2xCA	B1+B1/B5/B8/B20/B28;	B2+B2/B5/B12/B13/B26/B29 <sup>①</sup> ;	B2+B2/B5/B8/B20/B28;	B1+B3/B8/B18/B19;
		B3+B3/B5/B7/B8/B20/B28;	B4+B4/B5/B12/B13/B26/B29 <sup>①</sup> ;	B3+B3/B5/B7/B8/B20/B28;	B3+B5/B19;
		B7+B5/B7/B8/B20/B28;	B7+B5/B7/B12/B13/B26/B29 <sup>①</sup> ;	B4+B4/B5/B8/B20/B28;	B7+B5/B7;
		B20+B32 <sup>①</sup>	B25+B5/B12/B13/B25/B26/B29 <sup>①</sup> ;	B7+B5/B7/B8/B20/B28;	B21+B19;
		B38+B38;	B30+B5/B12/B13/B26/B29 <sup>①</sup> ;		B38+B38;
B40+B40;	B66+B5/B12/B13/B26/B29 <sup>①</sup> /B66		B39+B39;		
B41+B41			B39+B41;		
			B40+B40;		
			B41+B41		
UMTS	WCDMA	B1/B3/B5/B8	B2/B4/B5	B2/B3/B4/B5/B8	B1/B5/B6/B8/B9/B19
Embedded GNSS	Y	Y	Y	Y	Y
PCIe Interface	Optional	Optional	Optional	Optional	Optional
USB 3.0	Y	Y	Y	Y	Y
Region	EMEA, Australia, Brazil	North America	Latin America	APAC	
Certification	CE*/ GCF*/ Carrier Certificate (TBD)	FCC*/ PTCRB*/ GCF*/ AT&T*/ Verizon*	TBD	TBD	

## Cat 4 Support list

Frequency	MG25-E	MG25-A	MG25-V	MG25-AUT	MG25-AU	MG25-AUTL	MG25-J	MG20-C R2.1	MG20-CE R2.1	
LTE	FDD-LTE	B1/ B3/ B5/ B7/ B8/ B20	B2/ B4/ B12	B4/ B13	B1/ B3/ B5/ B7/ B28	B1/ B2 <sup>①</sup> / B3/ B4/ B5/ B7/ B8/ B28	B3/ B7/ B28	B1/ B3/ B8/ B18/ B19/ B26	B1/ B3/ B8	B1/ B3/ B5/ B8
	TDD-LTE	B38/ B40/ B41				B40		B41	B34/ B38/ B39/ B40/ B41	B34/ B38/ B39/ B40/ B41
3G	WCDMA	B1/ B5/ B8	B2/ B4/ B5		B1/ B5	B1/ B2/ B5/ B8		B1/ B6/ B8/ B19	B1/ B8	B1/ B8
GSM/EDGE	B3/ B8					B2/ B3/ B5/ B8			B3/ B8	B3/ B8
Embedded GNSS	Optional	Optional	Optional	Optional	Optional		Optional	Optional	Optional	Optional
Wi-Fi Interface	Y	Y	Y	Y	Y		Y	Y	Y	Y
Region	EMEA, Korea, Thailand, India	America	America	Australia	Latin America, ANZ, Taiwan	Japan	Japan	China	China, India	
Certification	CE/ GCF/ KC/ SKT/ NBTC/ Modem/ EAC	FCC/ PTCRB/ IC/ ROGERS/ AT&T	FCC/ GCF/ Verizon	RCM	RCM/ NCC/ Anatel		JATE/ TELECOM/ Docomo*/ Softbank	CCC/ SRRC/ NAL	CCC/ SRRC/ NAL	