

EAA-001

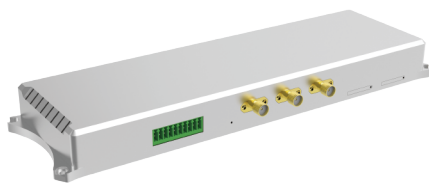
Embedded Computer



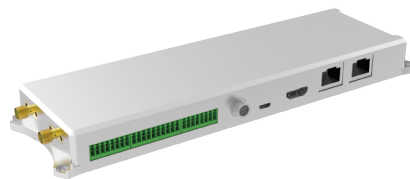
1. Advantages

Feature	Description
Based on Freescale Platform	Freescale IMX6DL(Dual)
Powerful OS Based	Linux 4.9.11
Multiple Communication Interface	Support Bluetooth 4.0 Support 2.4G/ 5G dual-band WIFI Support RS-232, RS-485 Communication Support 2G/3G/4G data service Optional✓ Support NB-IoT Optional✓ Support LoRa Optional✓ Support CANBus Optional✓
Online Upgrade	The OS kernel and APP can be updated online remotely.
Wide Voltage	Wide voltage input range from DC9V to DC24V.
HDMI Output Supported	HDMI D Type interface, peak transmission speed 5GB/s. 1080P, 720P supported.
Micro USB OTG Interface	USB 2.0, Micro 5PIN OTG Support USB 2.0 standard peripherals
High-speed Internet Interface	Dual, Support 450M/ 100M/ 10M network adapter
GPIO	4 inputs, 4 outputs. Up to 8kV isolation voltage.
Classy Industrial Design	Compact and artistic design with CNC aluminum material.

2. Product View



Front view



Rear view



Top view

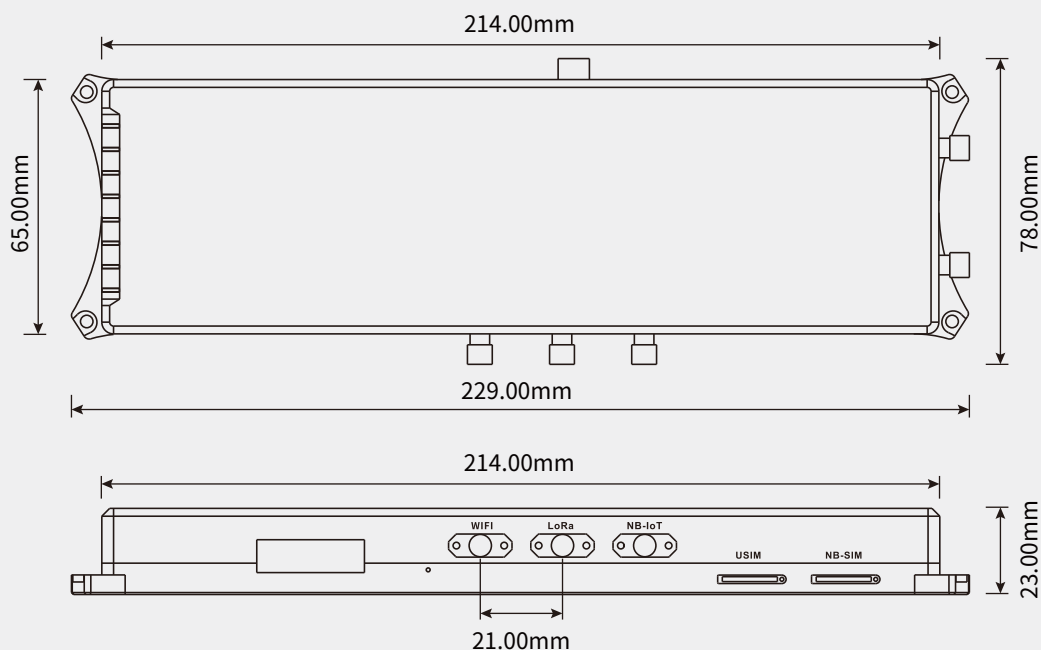


Bottom view

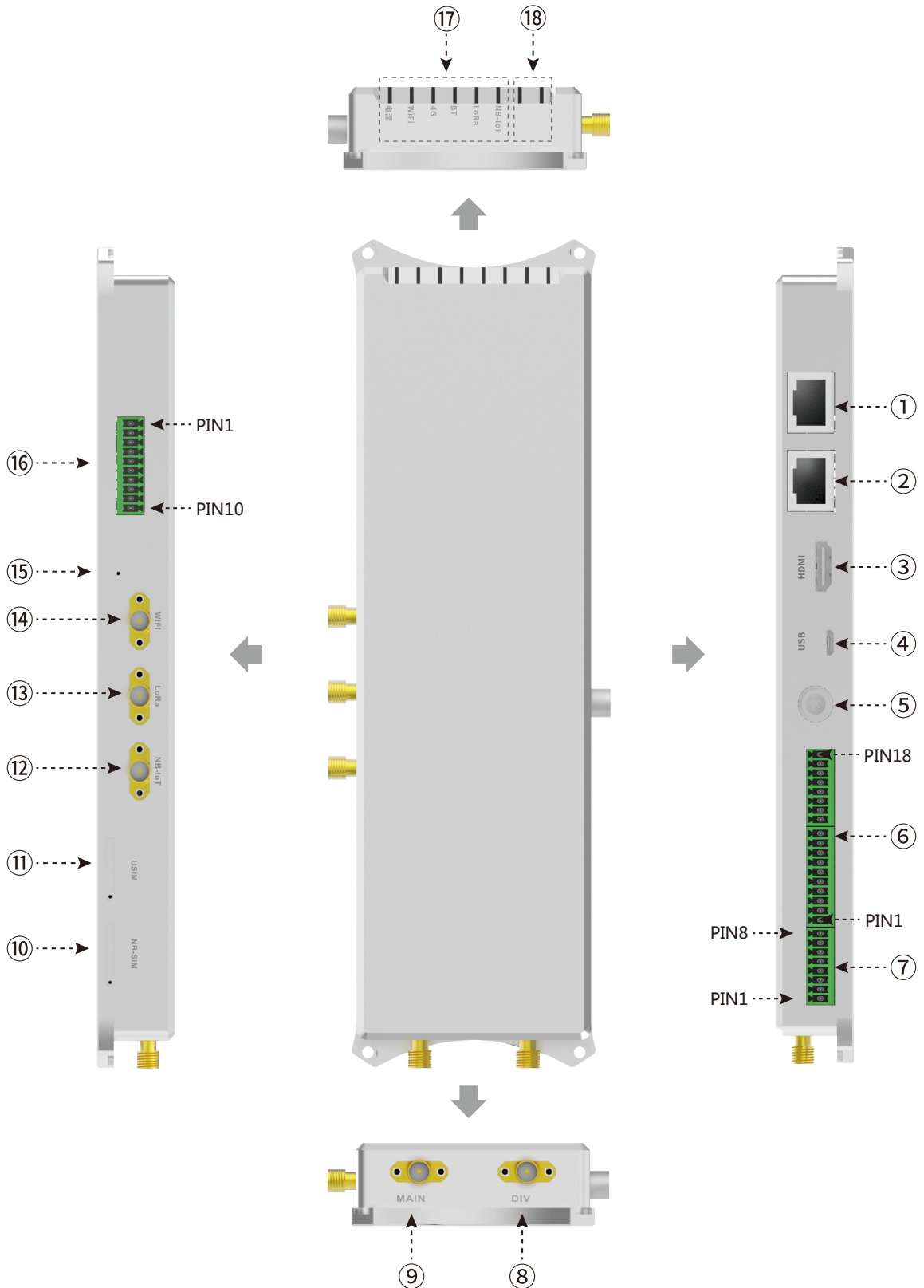
3. Electrical Parameters

Mechanical Parameters		Communications	
Material	CNC Aluminum	WIFI	SMA interface, Support 2.4G / 5G WIFI
Dimensions	229(L)*78(W)*23(H)mm	Bluetooth	Bluetooth 4.0
Weight	390g	Ethernet	Dual Support 450M/ 100M/ 10M network adapter
System Characteristics		Serial Interface	RS-232*3, RS-485
Operating System	Linux 4.9.11	Industrial bus	CANBus Optional✓
CPU	Freescale IMX6DL(Dual)	NB-IOT	Support Optional✓
RAM+ROM	1G+8G 2G+16G Optional✓	LoRa	Support Optional✓
USB Interface	USB 2.0, Micro 5PIN USB OTG supported	Application Environment	
Input Voltage	DC 9V~24V	Operating Temp	-20℃~+85℃
Operating Current	300mA+/-5%@DC 12V Input	Storage Temp	-40℃~+85℃
GPIO	4 inputs, 4 outputs	Humidity	5%RH - 95%RH (non-condensing)
HDMI	HDMI D Type interface, peak transmission speed 5GB/s; 1080P/720P supported	Ingress Protection	IP53
Online Upgrade	The OS kernel and APP can be updated online remotely.	Heat Dissipation	Air cooling

Dimensions (mm)



4.Interface Definition



Interface Definition List			
PIN ID	Function	Description	
① ②	Ethernet	Support 450M/ 100M/ 10M network adapter, Support IEEE 802.3 protocol POE Power	
③	HDMI	HDMI D Type Interface	
④	Micro USB	USB 2.0 OTG Interface	
⑤	POWER	DC 9V ~ 24V	
⑥	RS-232	1. GND	10. RS-232_RTS3
		2. RS-232_RTS1	11. RS-232_TX3
		3. RS-232_TX1	12. RS-232_CTS3
		4. RS-232_CTS1	13. RS-232_RX3
		5. RS-232_RX1	14. RS-232_RTS4
		6. RS-232_RTS2	15. RS-232_TX4
		7. RS-232_TX2	16. RS-232_CTS4
		8. RS-232_CTS2	17. RS-232_RX4
⑦	RS-485	9. RS-232_RX2	18. GND
		1. RS-485_RX+	4. RS-485_TX+
		2. RS-485_RX-	5. GND
	CANBus	3. RS-485_TX-	
		6. CANH	8. GND
⑧	DIV	LTE diversity antenna	
⑨	MAIN	LTE main antenna	
⑩	SIM	NB-IoT SIM card	
⑪	USIM	LTE SIM card, 2G/3G/4G Micro SIM card	
⑫	NB-IoT	NB-IoT antenna	
⑬	LoRa	LoRa antenna	
⑭	WIFI	SMA interface for external 2.4G/ 5G WIFI antenna	
⑮	Updata button	Upgrade firmware compulsively button	
⑯	GPIO	1. DC12V Input	6. GPO4
		2. GND	7. GPI1
		3. GPO1	8. GPI2
		4. GPO2	9. GPI3
		5. GPO3	10. GPI4
⑰	Indicator light	The power supply , WiFi , 4G , BT , LoRa , NB-IoT Indicator light	
⑱	Defined Indicator light	User - defined indicator light	