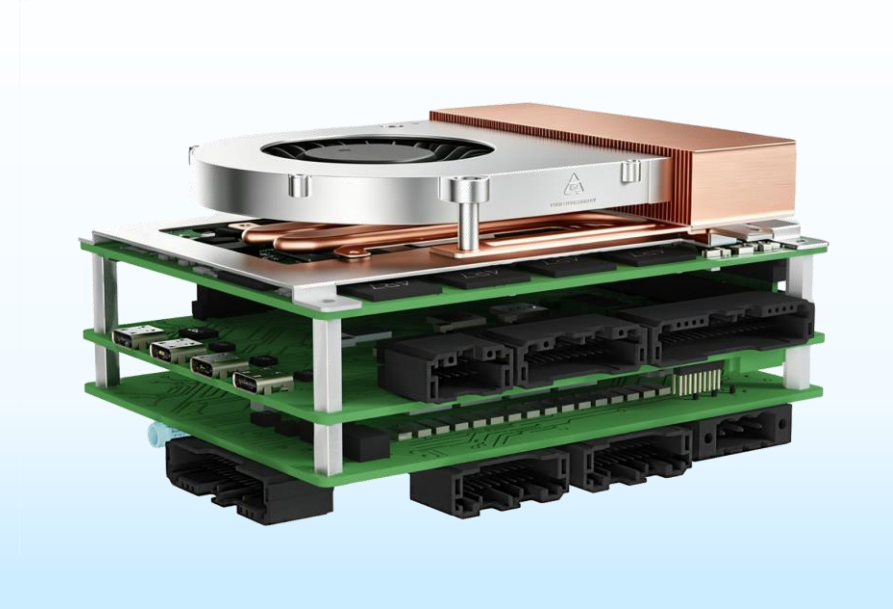


AR100 Series

Features

- Intel® Panther Lake Core™ Ultra Series 3 processors
- 16G/32G LPDDR5X, On board 256G SSD
- 5 x GbE LAN (Intel® Ethernet Controller I210-AT)
- 4 x USB3.2 Type-C, 3 x USB2.0 Header
- 1 x RS-232, 5 x RS-485
- 1 x IMU (BMI088)
- 1 x MIPI CSI (Support GMSL Module)
- 16DI 16DO(10K), 2 x Can FD
- 1 x Mic in/Line out
- Support 4G/5G, Wi-Fi module expansion
- 9-36V DC-in
- 131.5 x 117 x 129 mm(L x W x H)
- Windows 10/11, ubuntu 20.04/22.04

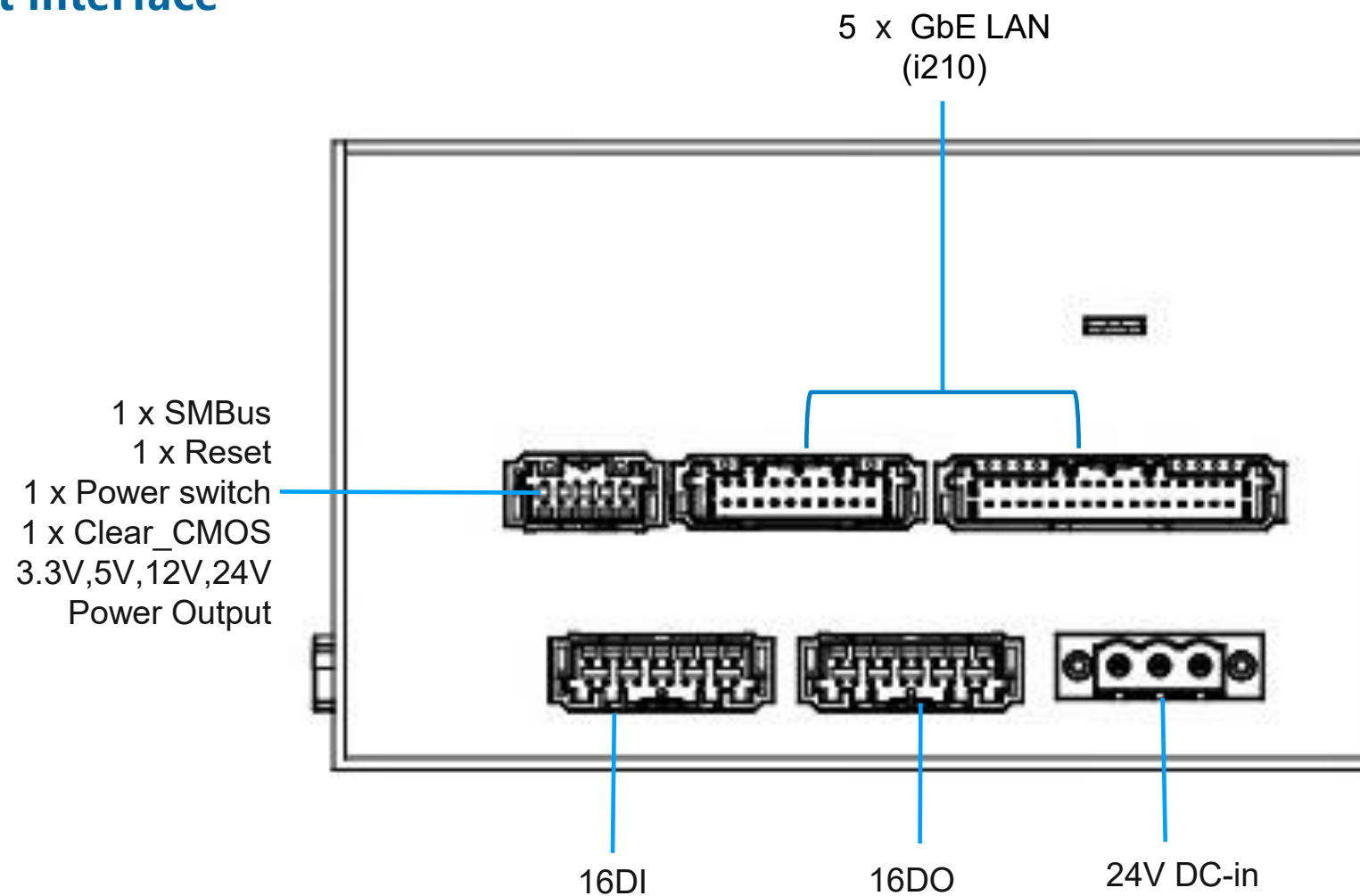


Specification

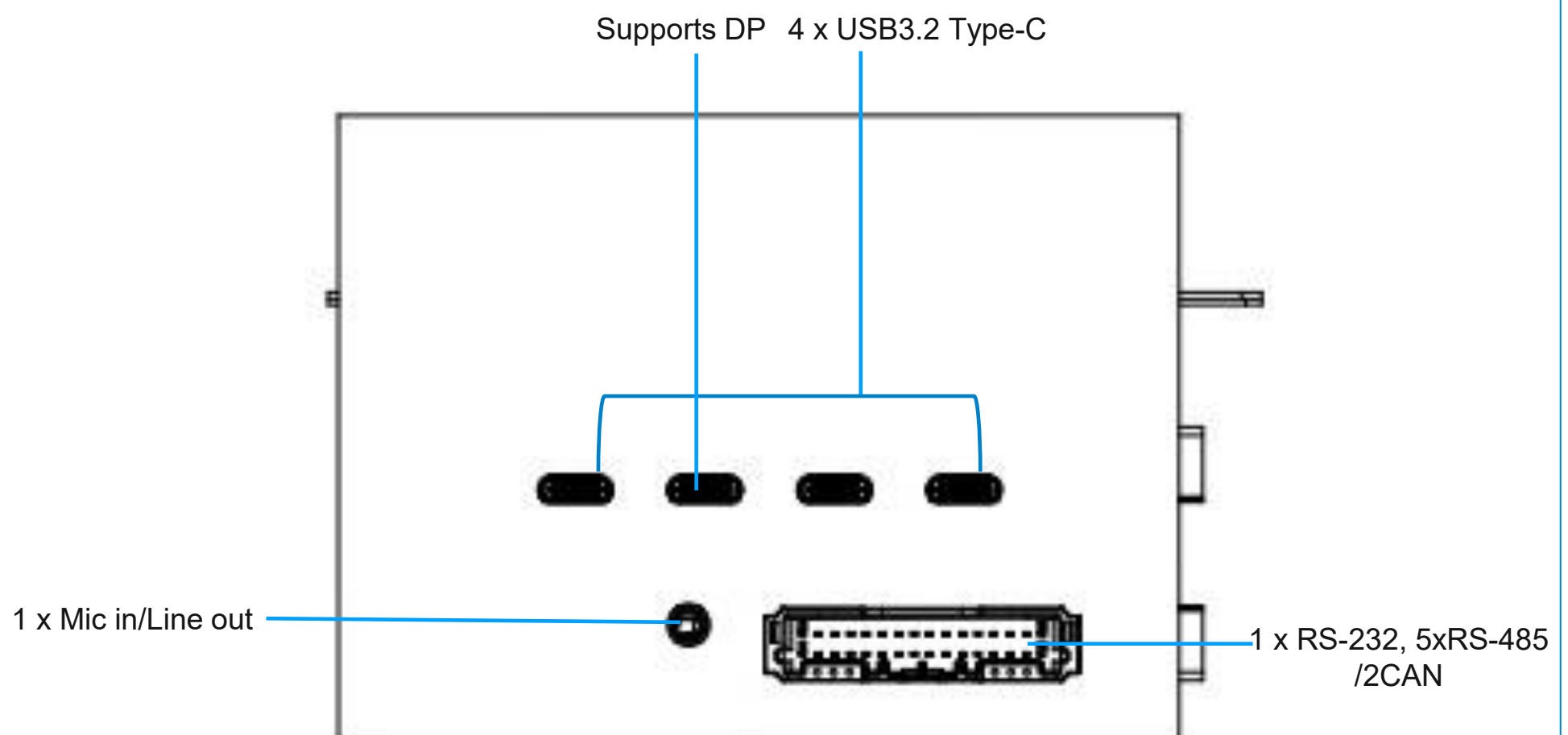
Item		Discription
Processor System	CPU	Intel® Core™ Ultra Series 3 processors
	TDP	25W
	BIOS	AMI 256Mbit SPI Flash
Memory	Technology	4 x LPDDR5X
	Capacity	16GB/32GB
Graphics	SSD	On board 256G SSD
External I/O	Serial Port	1 x RS-232, 5xRS-485
	Ethernet	5 x Intel i210 GbE LAN
	USB	4 x USB3.2 Type-C (one supports DP), 3 X USB2.0 (built-in)
	Audio	1 x Mic in/Line out
	CANbus	2 x CAN FD
	DIO	16DI,16DO(10K)
	Power Input Connector	1 x 3 PIN Phoenix terminal
	J1	1 x SMBus 1 x Power switch 1 x Clear_CMOS 1 x Reset 3.3V,5V,12V,24V Power Output
Internal I/O	LCD	1 x eDP1.4b resolution up to 4096 x 2304 @ 60Hz; or LVDS single channel18/24-bit, resolution up to 1920x1200
	CPU FAN	1 x CPU FAN
	RTC Battery	1 x RTC Battery (CR2032)
	IMU	1 x BMI088
	eSPI Bus	1 x eSPI Bus
	MIPI CSI	1 x MIPI CSI (Support GMSL Module)
	M.2 E-Key	1 x M.2 2230 E-Key Support Wi-Fi (CNVI)
	M.2 B-Key	1 x M.2 3042/3052 B-Key (4G/5G)
	M.2 M-Key	1 x M.2 M-Key 2280 Sata3.0
	SIM	1 x NANO SIM
	Buzzer	1 x Beep
Switch	Auto Power ON	PSON Connector
Others	Watchdog	65536 lever, 0~65535 sec
	Power Input	9-36V±10% DC
	Power Management	AT/ATX
Environment	Operating Temperature	0 ~ 60 °C (32~140°F)
	Storage Temperature	-40~85 °C (-40~185°F)
	Operating Humidity	95% @ 40 °C(Non-Condensing)
	Storage Humidity	95% @ 60 °C(Non-Condensing)
Physical Characteristic	Dimension	129x105.3x78.3mm(L x W x H)
OS	OS	Windows 10/11, centos 8, ubuntu 20.04/22.04

Interfaces

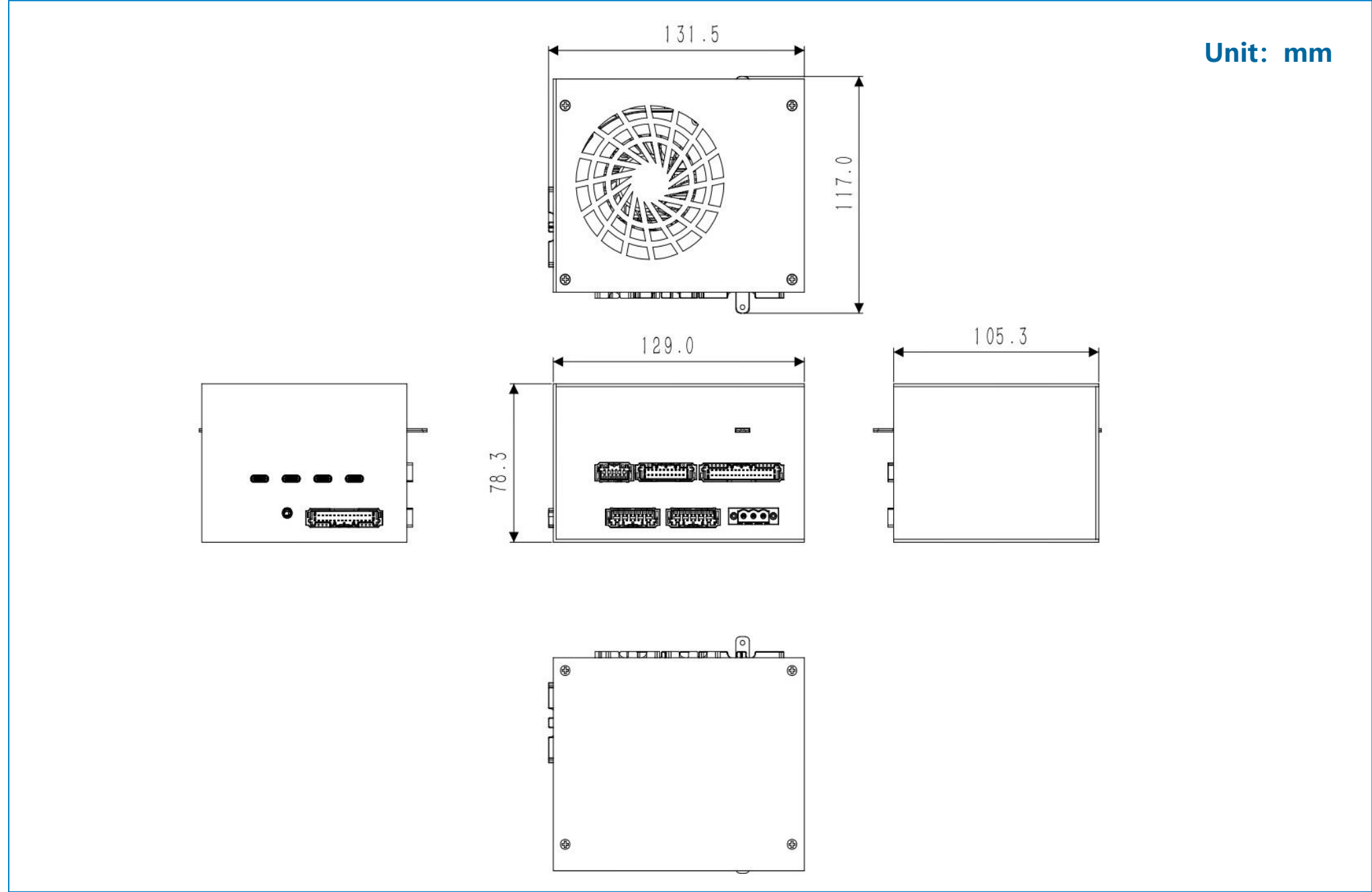
Front Interface



Side Interface



Dimensions



Order Information

Part Number	CPU	Processor Base Power	Max. Frequency	Core	Thread	GbE	COM	USB3.0	USB2.0	DIO	M.2	DC-Input
AR100-01	356H	25W	4.7 GHz	16	16	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-02	358H	25W	4.8 GHz	16	16	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-03	366H	25W	4.8 GHz	16	16	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-04	368H	25W	5.0 GHz	16	16	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-05	378H	25W	5.0 GHz	16	16	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-06	386H	25W	4.9 GHz	16	16	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-07	388H	25W	5.1 GHz	16	16	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-08	336H	25W	4.6 GHz	12	12	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-09	338H	25W	4.7 GHz	12	12	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-10	325	25W	4.5 GHz	8	8	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-11	335	25W	4.6 GHz	8	8	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-12	355	25W	4.7 GHz	8	8	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-13	365	25W	4.8 GHz	8	8	5	6	4	2	16DI,16DO	3	9-36V DC
AR100-14	322	25W	4.4 GHz	6	6	5	6	4	2	16DI,16DO	3	9-36V DC