

UBC-221

Intel Quark x1000 2.5" IoT Gateway

Preliminary



Features

- Intel Quark x1000 Single core 400MHz
- On-board DDR3 800MHz 512MB
- Support 4 GPIO and 1 UART
- Support 2x 10/100 Ethernet and 1x MiniPCIe sockets
- Yocto Linux
- Supports a flexible mount



Introduction

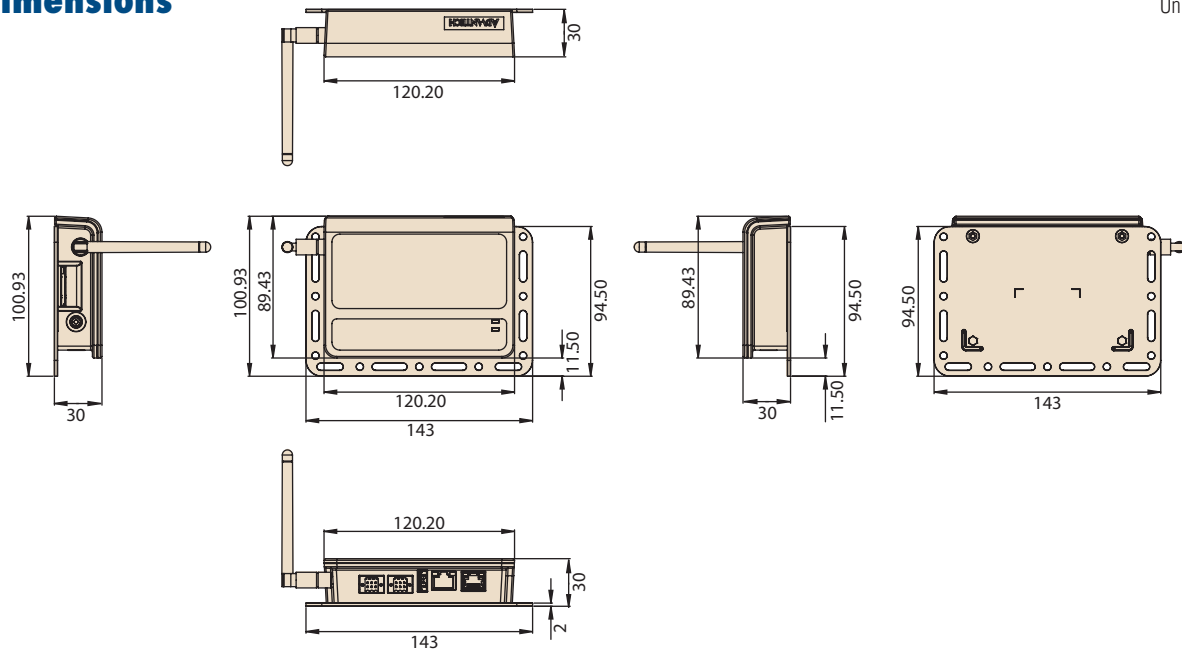
UBC-221 is an Advantech IoT gateway powered by Intel Quark x1000 processor which is a sufficient performance and cost efficient solution for IoT application. UBC-221 support multiple connections. Also, the PoE and web-base management will be easy for user to installation and maintenance.

Specifications

Form Factor	Box Computing	
Processor System	CPU	Intel Quark x1000 400MHz
	Technology	DDR3 800 MHz
	Capacity	On-board DDR3 512 MB
	Flash	4 MB SPI NOR Flash for Advantech boot loader
Ethernet	Chipset	onboard
	Speed	2 x 10/100 Mbps (one with optional PoE support)
WatchDog Timer	1 ~ 256 level	
I/O	USB	1 USB 2.0 host
	SDIO	1 4-bit SD Socket
	Serial Port	1 UART (support 4 wires)
	CAN	-
	GPIO	2 pins for GPI (with isolation support) 2 pins for GPO
	LED	1 Power LED 1 LED with programmable ability
	Button	-
Expansion	Mini PCIe	1 x mini PCIe slot (PCIe and USB signals)
	SD Socket	1 x SD slot
Power	Power Supply Voltage	+12V
	Power Type	DC-in
	Power Consumption	TBC
Environment	Operational Temperature	0 ~ 40° C
	Operating Humidity	5%-95% Relative Humidity, non-condensing
Box Computing	Dimensions (L x W x H)	108 x 79 x 30 mm
Operating System	Yocto Linux	
Certifications	CE/FCC Class B	

Dimensions

Unit: mm



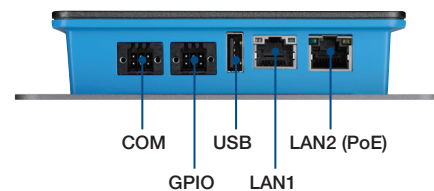
Ordering Information

Part Number	CPU	Memory	Flash	LAN	GPIO	miniPCle	Serial Port	CAN Bus	USB Host	USB OTG	SD	Operation temperature
UBC-221CS-GNA1E	Intel Quark x1000 400MHz	DDR3 512MB	-	1x 10/100 1x 10/100 with PoE	4	1	1	-	1	-	1	0 ~ 40° C

Optional Accessories

Part Number	Description
SQF-ISDS1-2G-86E	SQFlash SD card SLC 2G, 1CH (-40 ~ 85° C)
96PSA-A36W12R1	Adapter 100-240V 36W 12V 3A
170203183C	Power Cord 3P Europe (WS-010+WS-083)183cm
170203180A	Power Cord 3P UK 2.5A/3A 250V 1.83M
1700001524	Power Cord 3P UL 10A 125V 180cm
1700021565-01	Debug cable

External I/O



Packing List

Part Number	Description	Quantity
1652006794-01	6 pin terminal block	2

