# **UBC-222**

#### Intel® Quark™ SoC X1000 IoT Gateway



#### **Features**

- Intel® Quark™ Single Core SoC X1000 400 MHz processor
- Onbard DDR3 512MB, 800 MHz memory
- 1 RS-232/422/485 port
- 2 10/100 Ethernet and 1 mini PCle slot
- Supports Yocto Linux BSP
- Low power consumption, fanless design
- Supports wall mounting and DIN rails

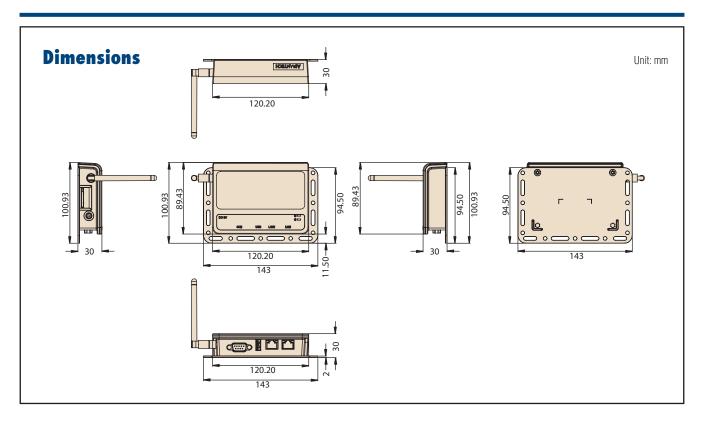


#### Introduction

UBC-222 is an economical IoT gateway solution powered by an Intel® Quark™ SoC X1000 processor. With onboard DDR3 memory 512MB and SD-boot support, it provides expandable storage and sufficient system performance for data acquisition and information analysis. Dual 10/100 Ethernet enhance data transmission and the cross-platform communication; COM port supports various standard including RS-232/RS-485/RS-422, which makes UBC-222 capable of connecting different IoT devices efficiently.

#### **Specifications**

Form Factor		2.5" Box computer			
Processor System	CPU	Intel Quark Single x1000 400MHz			
	Technology	DDR3 800 MHz			
	Capacity	On-board DDR3 512 MB			
	Flash	4 MB of SPI NOR Flash for Advantech's boot loader			
Ethornot	Chipset	Intel Quark integrated RMII			
Ethernet	Speed	2 x 10/100 Mbps			
Watchdog Timer		From 1~6553s, power on/off 4s			
	USB	1 USB 2.0 Host			
	SDI0	1 x SD slot			
	Serial Port	1 x RS-232/422/485			
1/0	CAN	-			
1/0	GPI0	-			
	LED	1 Green LED for system power			
	LED	1 Yellow LED for user define			
	Button	<u>-</u>			
	Mini PCle	1 x mini PCle slot			
Evennien	SIM	1 x SIM slot			
Expansion	Antenna Hole	1x Antenna hole			
	SD Socket	1 x SD slot			
	Power Supply Voltage	+5 V			
Power	Power Type	DC-in			
	Power Consumption	1.97W (Max)			
Environment	Operating Temperature	0 ~ 60 °C (32 ~ 140 °F)			
	Operating Humidity	5 ~ 95% relative humidity, non-condensing			
Mechanical	Dimensions (L x W x H)	143 x 101 x 30 mm			
	Mounting	Wall mount, DIN rail, VESA 75/100 by option			
	Weight	210g			
Operation System		Yocto Linux			
Certifications		CE/FCC Class B			



## **Ordering Information**

Part Number	CPU	Memory	Flash Memory	LAN	GPI0	Mini PCle	Serial Port	CAN Bus	USB Host	USB OTG	SD	Operating Temperature
UBC-222NS-GLA1E	Intel Quark SoC X1000 400 MHz	DDR3 512 MB	-	2 x 10/100	-	1	1	-	1	-	1	0 ~ 60 °C

### **Packing List**

Part Number	Description
UBC-222NS-GLA1E	UBC-222 IoT Gateway Box Computer

# **Optional Accessories**

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Part Number	Description
XRISC-ADP-10HW-AG	Power adapter 100-240V 10W 5V USB interface
1700025431-01	USB to DC-in cable
1700021565-01	Debug cable
SQF-ISDS1-2G-86E	SQFlash SD card SLC 2G (-40 ~ 85 °C)

#### External I/O

