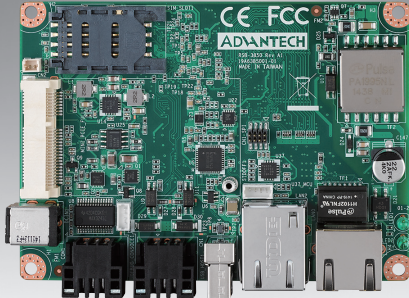


# RSB-3850

Intel® Quark™ Single Core SoC X1000  
400 MHz processor 2.5" SBC

NEW



## Features

- Intel® Quark™ SoC X1000 400 MHz processor
- Onboard DDR3 512MB, 800 MHz memory
- Supports 4 GPIO and 1 UART
- 1 Mini PCIe and 2 10/100 Ethernet ports (one with PoE)
- Low power consumption, fanless design
- Supports Linux and Android

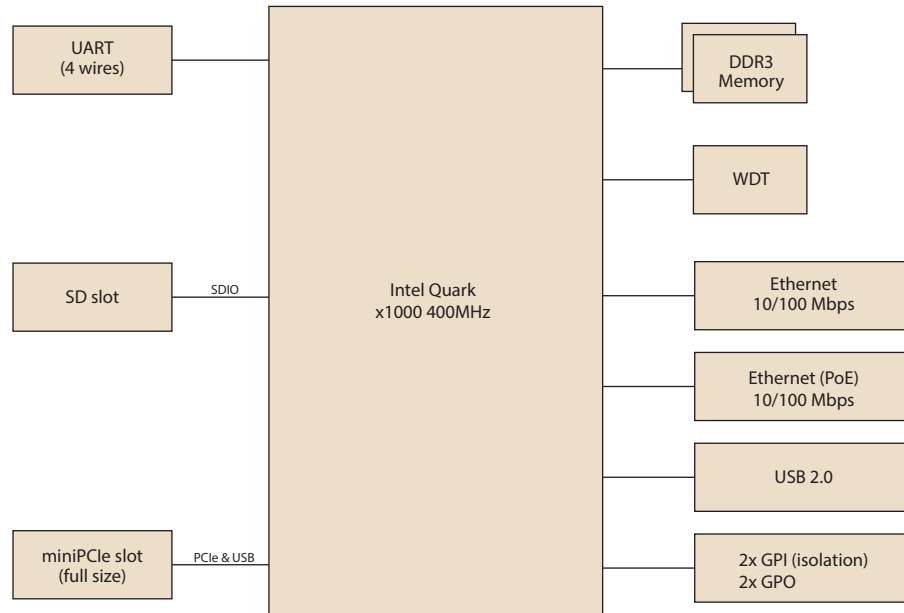
## Introduction

RSB-3850 is an Advantech SBC powered by Intel Quark x1000 processor, which provides a sufficient performance and cost efficient solution for IoT applications. RSB-3850 supports multiple connections. Also, the PoE is easy for the user to install and maintain.

## Specifications

Form Factor		2.5" SBC
Processor System	CPU	Intel Quark Single x1000 400MHz
	Technology	DDR3 800 MHz
	Capacity	On-board DDR3 512 MB
	Flash	4 MB SPI NOR Flash for Advantech boot loader
Ethernet	Chipset	Intel Quark Integrated RMII
	Speed	2 x 10/100 Mbps (one with PoE)
WatchDog Timer		1-6553s, power on/off 4s
I/O	USB	1 USB 2.0 Host
	SDIO	1 SD Slot
	Serial Port	1 x 4 wire RS-232
	CAN	-
	GPIO	2 GPI/ 2 GPO w/isolation
	LED	1 Power LED 1 Programmable LED
	Button	-
Expansion	Mini PCIe	1 x mini PCIe slot
	SM	1 x SIM slot
	SD Socket	1 x SD slot
Power	Power Supply Voltage	12V / PoE 802.3 at Class 3
	Power Type	DC-in / PoE 802.3 at Class 3
	Power Consumption	2.76W (Max)
Environment	Operating Temperature	0 - 60 °C
	Operating Humidity	5%-95% Relative Humidity, non-condensing
SBC	Dimensions (L x W)	100 x 72 mm
Operation System		Linux
Certifications		CE/FCC Class B

## Block Diagram



## Ordering Information

Part Number	CPU	Memory	Flash Memory	LAN	GPIO	miniPCIe	Serial Port	CAN Bus	USB Host	USB OTG	SD	Operation temperature
RSB-3850CS-GPA1E	Intel Quark x1000 400MHz	DDR3 512MB	-	1x 10/100 1x 10/100 with PoE	4	1	1	-	1	-	1	0 ~ 60 °C

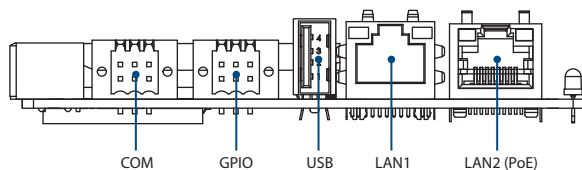
## Packing List

Part Number	Description
1652006794-01	6 pin terminal block

## Optional Accessories

Part Number	Description
96PSA-A36W12R1	Power Adapter 100-240V 36W 12V
1700001524	Power cord 3P UL 180cm
170203183C	Power cord 3P EU 183cm
170203180A	Power cord 3P UK 183cm
1700008921	Power Cord 3P PSE 183cm
1700021565-01	Debug cable
SQF-ISDS1-2G-86E	SQFlash SD card SLC 2G (-40 ~ 85°C)

## External I/O



## Dimensions

