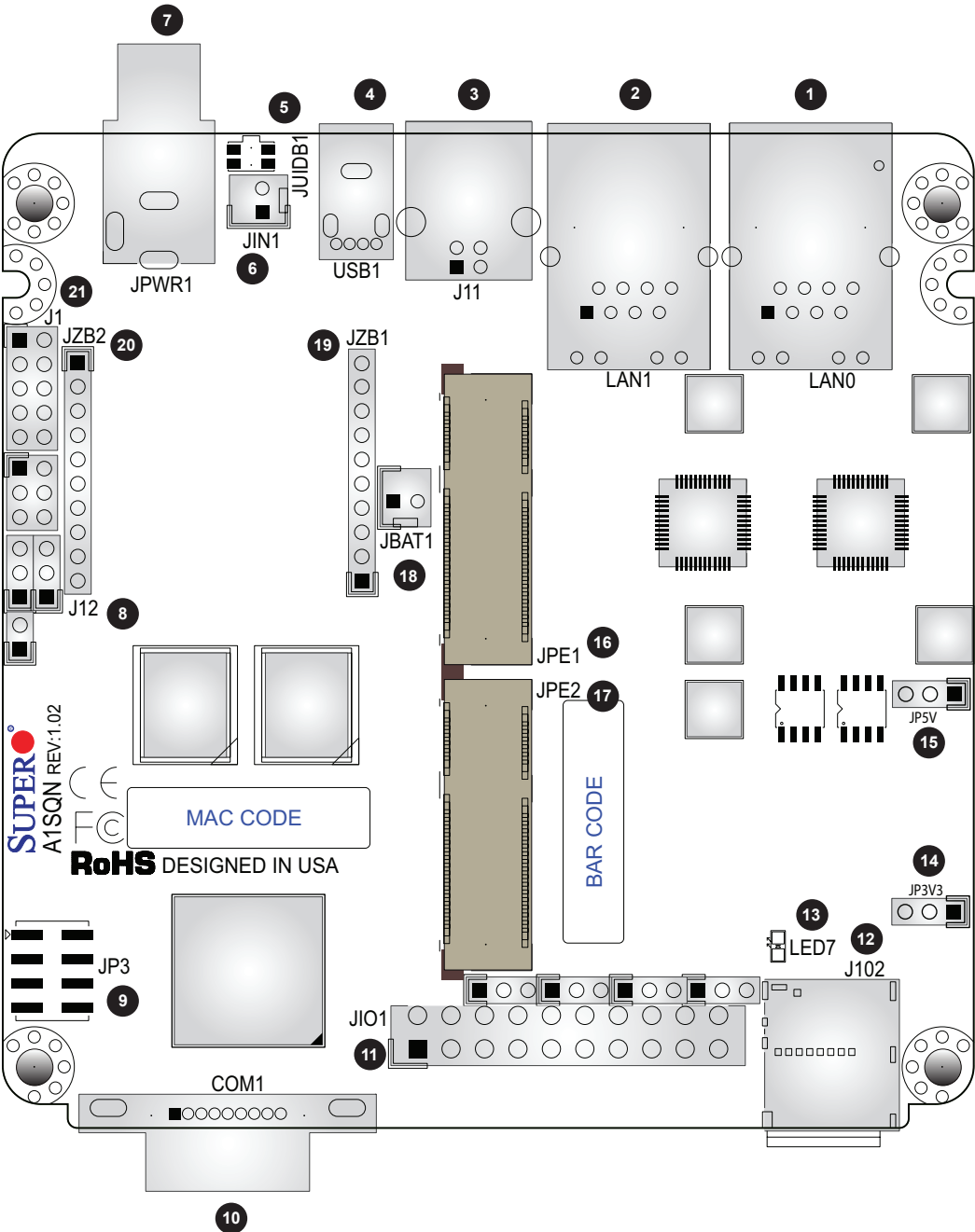## Motherboard Layout and Features

= mounting hole   *Note:* Item numbers are shown in counterclockwise order

Connectors and LED Indicator

Connectors

Connector	Item #	Description
COM1	10	COM1 Port
J1	21	JTAG Header
J11	3	USB Type B Port
J12	8	I2C Header
J102	12	Micro SD Card Slot
JBAT1	18	RTC Battery Connector
JIN1	6	Alternative Power Input when DC Jack is not in use
JIO1	11	2X10 External I/O
JP3V3	14	JIO1 3.3V Output
JP5V	15	JIO1 5V Output
JP3	9	2x4 SPI Flash Image Programming Header
JPE1	16	Full/Half Length Mini PCIe Card Slot with one USB 2.0 Interface
JPE2	17	Half Length Mini PCIe Card Slot
JPWR1	7	5V-18V Motherboard Power connector
JUIDB1	5	H/W Reset Button
JZB1/JZB2	19, 20	ZigBee Headers
LAN0	1	10/100 Mb Ethernet Port
LAN1	2	General Software Program to Bridge LAN Port
USB1	4	USB 2.0 Port

LED Indicator

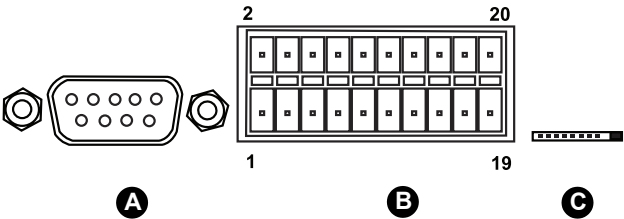| LED	Item #	Description	Color	Status
LED7	13	Micro SD Read/Write Indicator	Green	On

Memory Capacity

The memory capacity for the A1SQN motherboard is 512MB DDR3-800 of onboard memory.
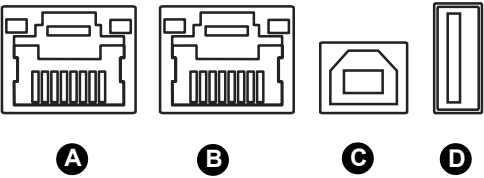
Processor Information

The A1SQN motherboard is powered by an Intel® Quark™ SoC X1021 processor.

Front Panel I/O Connectors

Front Panel I/O	
A. RS232 Port	
B. RS485 Port/ADC Port/DIO Port	
C. Micro SD Card Slot	

Back Panel I/O Connectors

Back Panel I/O	
A. LAN Port0	C. USB Port Type B
B. LAN Port1	D. USB Port Type A

Note: Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

Note: Refer to Chapter 1 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/ motherboard installation instructions.