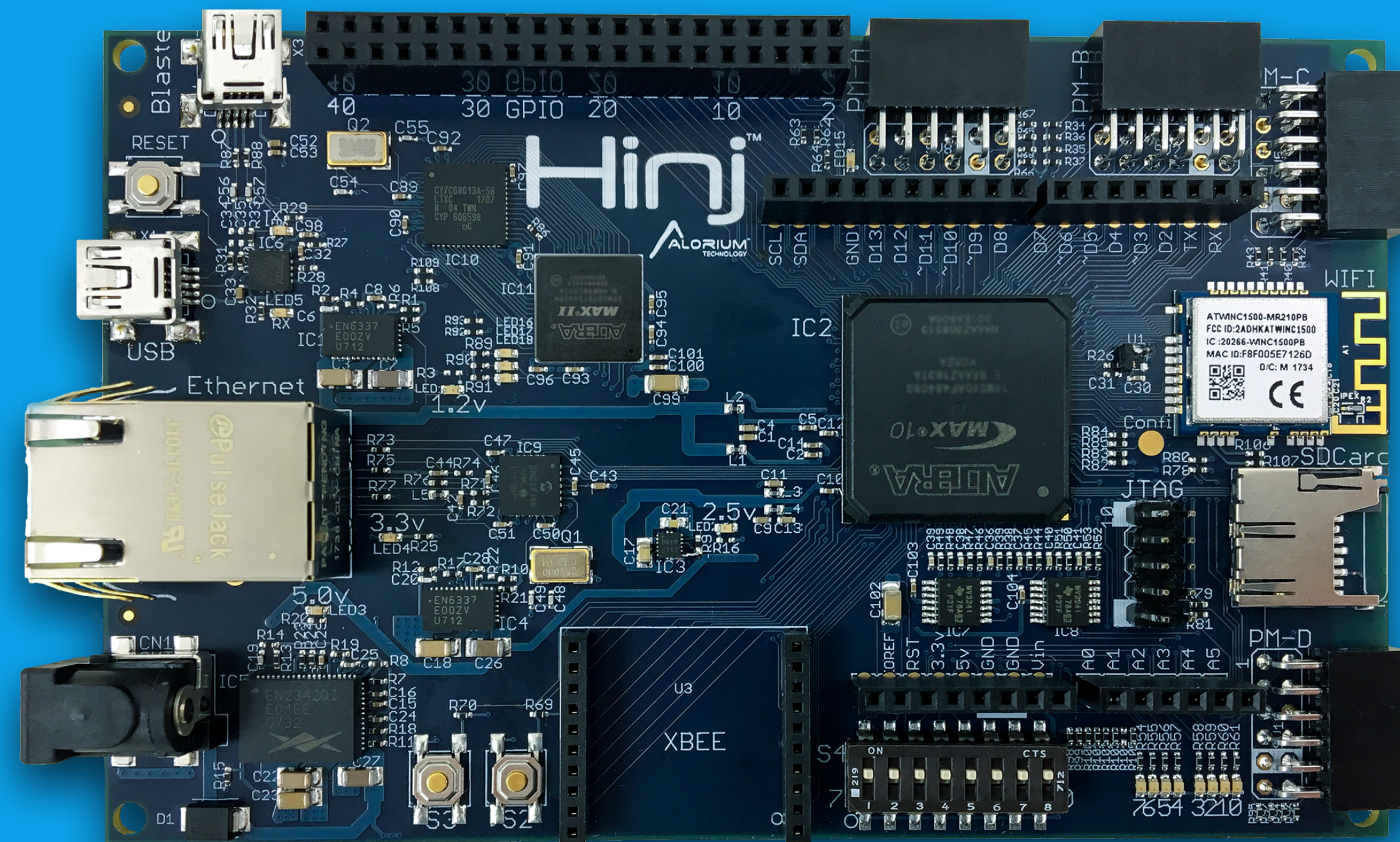
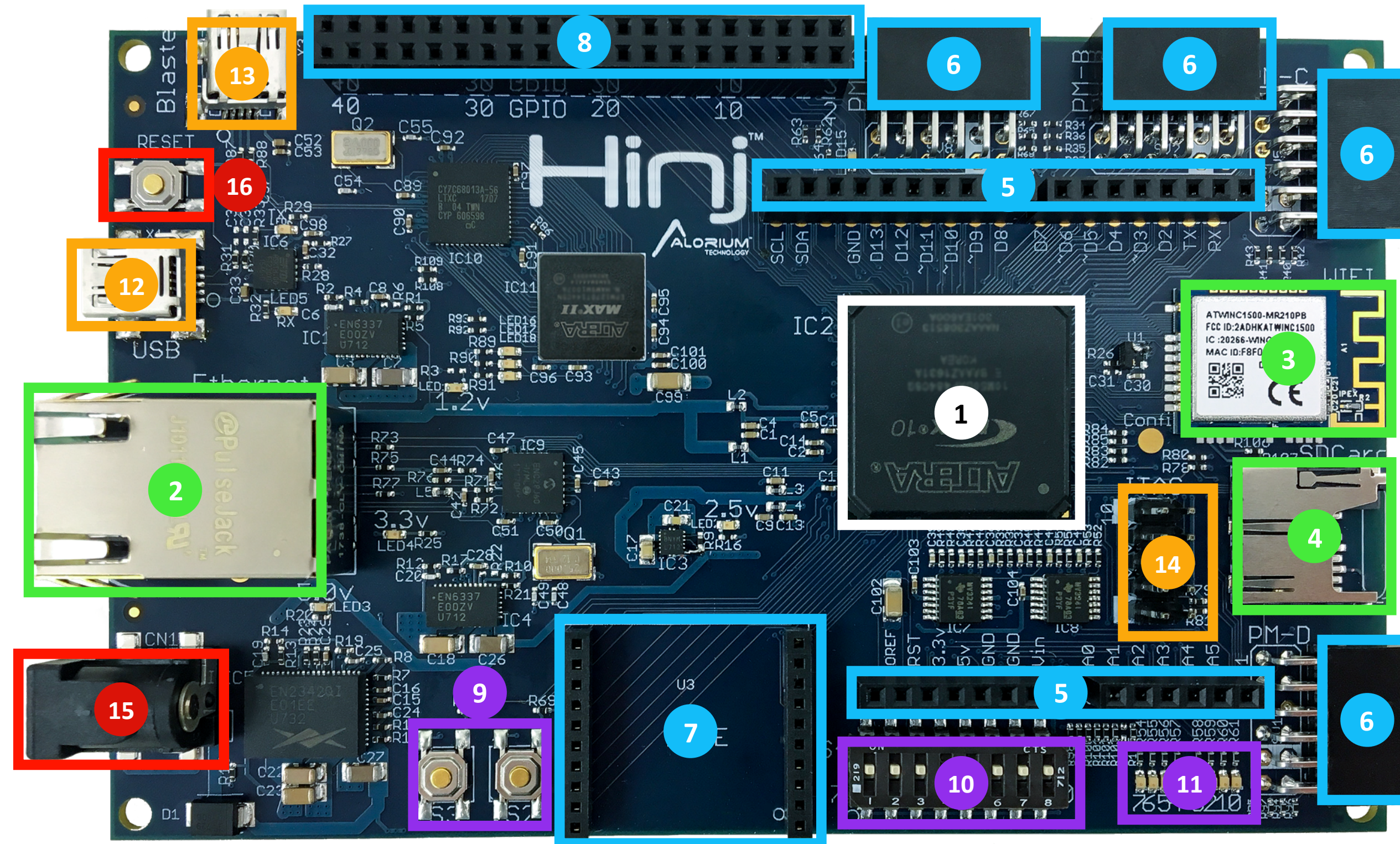


Hinj

Intel MAX 10
IoT Sensor Hub
Development Board

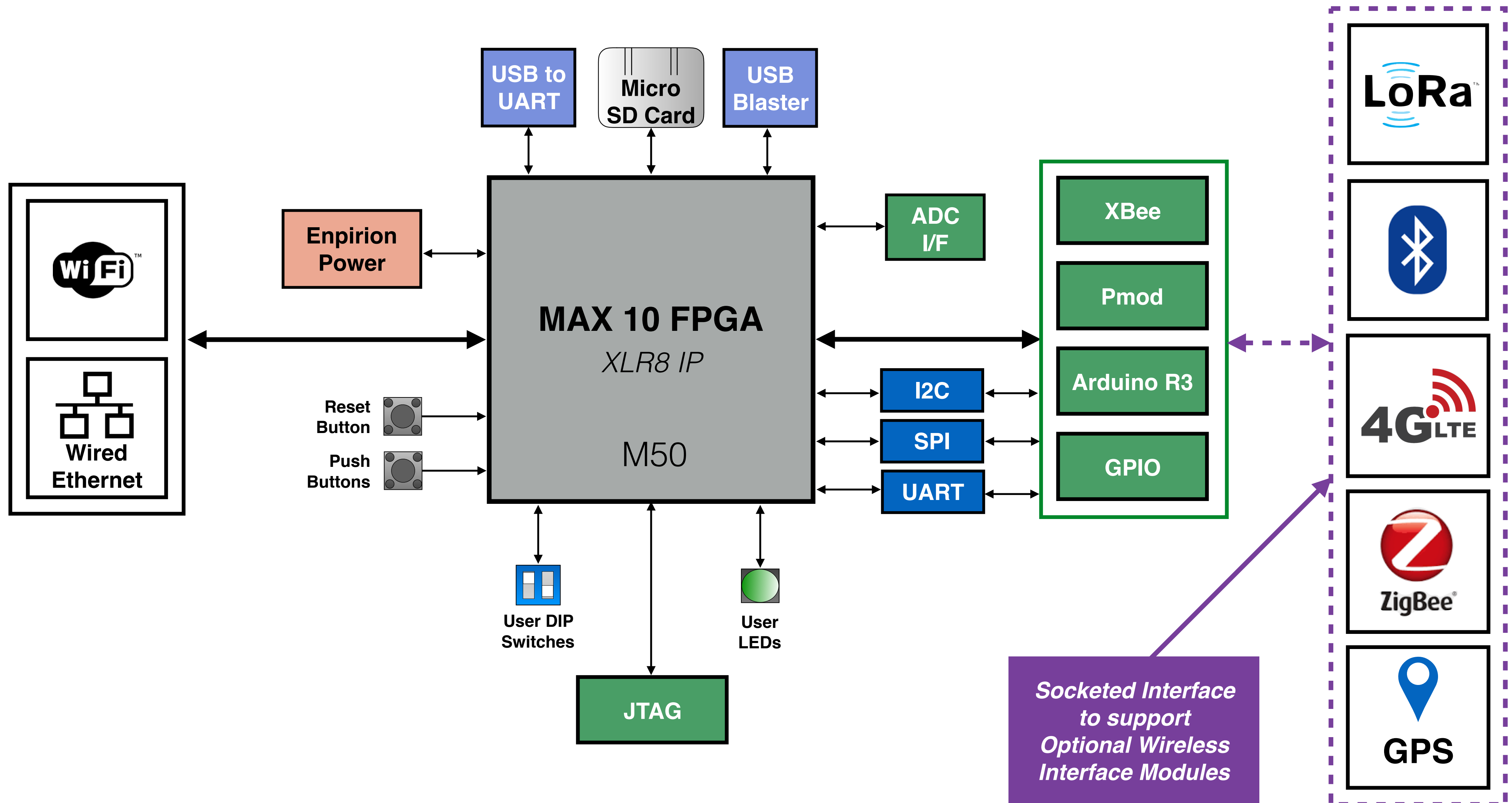


ID	Description
1	Intel MAX 10 FPGA
2	Ethernet Port
3	WiFi Module
4	MicroSD Card Slot
5	Arduino R3 Headers
6	PMOD Interfaces
7	XBEE Module Header
8	GPIO Interface



ID	Description
9	User Configurable Buttons
10	Assignable Switches
11	Programmable LED Bank
12	USB UART
13	Integrated USB Blaster
14	JTAG Interface
15	Barrel Connector Power Jack
16	Reset Button

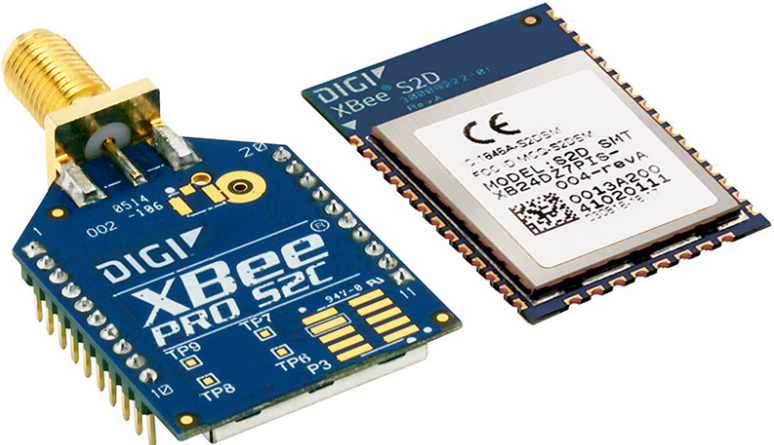
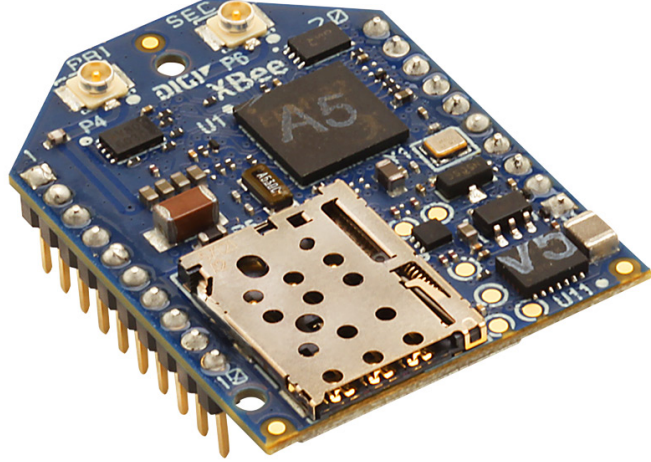

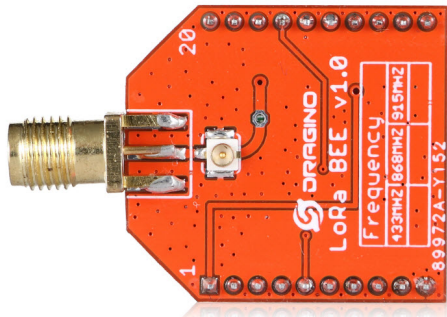
Hinj Block Diagram



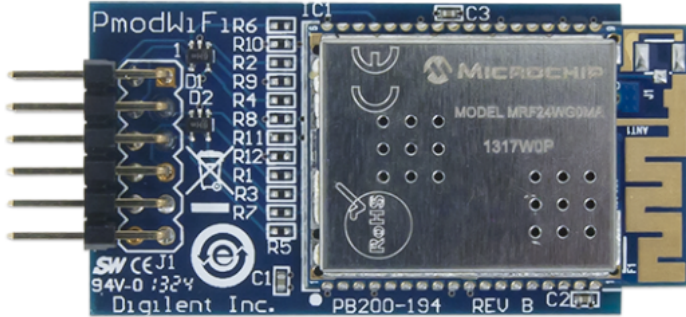


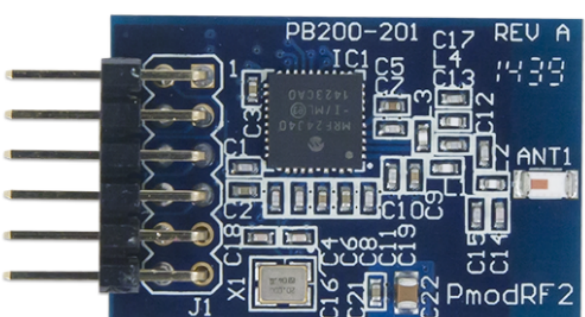
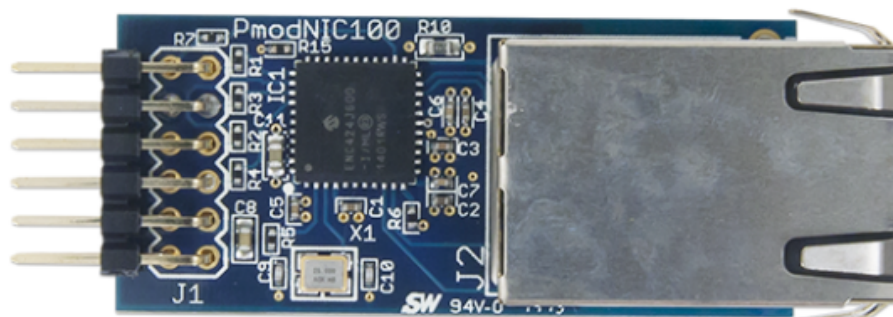
Key Features / Specifications

- **Based on Alorium's XLR8 AVR-compatible IP**
 - Maintains Arduino compatibility
 - Opens door to Arduino developer market
 - Natural transition from Arduino-based projects to FPGA-powered solutions
- **Wired & Wireless Modules**
 - Wifi and Ethernet based on pre-certified modules
 - Leverages existing FCC testing/certifications
- **Socketed interface to support additional communication options including:**
 - LoRa - ZigBee
 - BLE - GPS
 - 4G Cellular - SigFox
- **FPGA programming options**
 - On-board USB Blaster (MAX II)
 - USB UART
 - Compatible with existing XLR8 USB programming
 - Convenient/easy for new FPGA users
 - JTAG
- **I/O Expansion flexibility**
 - Multiple UART, SPI, I2C capability
 - Configurable for specific applications
 - Mappable to GPIO, Pmod, Arduino I/F, etc.
- **Other features**
 - Micro SD memory card slot
 - Enpirion power

Compatible XBee® Module Examples

Description	Supplier	
	Digi XBee Zigbee	Digi
	Digi XBee Cellular LTE Cat 1	Digi
	Digi XBee Wi-Fi	Digi
	LoRa Bee	Dragino

Compatible PMOD Module Examples

Description	Supplier	
 A blue PCB module with a Microchip 1317WOP WiFi chip. It features a 5-pin header on the left and a standard RJ45 Ethernet port on the right. The board is labeled 'PmodWiFi16' and 'Digilent Inc. PB200-194 REV B C200'.	Pmod WiFi: WiFi Interface 802.11g	Digilent
 A blue PCB module with a Bluetooth module. It has a 5-pin header on the left and a standard RJ45 Ethernet port on the right. The board is labeled 'PmodBT2'.	Pmod BT2: Bluetooth Interface	Digilent
 A blue PCB module with a PA6H0Y1438 GPS receiver chip. It features a 5-pin header on the left and a standard RJ45 Ethernet port on the right. The board is labeled 'PmodGPS' and 'G.top013'.	Pmod GPS: GPS Receiver	Digilent
 A blue PCB module with an IEEE 802.15 RF transceiver. It has a 5-pin header on the left and an antenna labeled 'ANT1' on the right. The board is labeled 'PmodRF2'.	Pmod RF2: IEEE 802.15 RF Transceiver	Digilent
 A blue PCB module with a Network Interface Controller (NIC). It features a 5-pin header on the left and a standard RJ45 Ethernet port on the right. The board is labeled 'PmodNIC100'.	Pmod NIC100: Network Interface Controller	Digilent

Hinj

Intel MAX 10
IoT Sensor Hub
Development Board