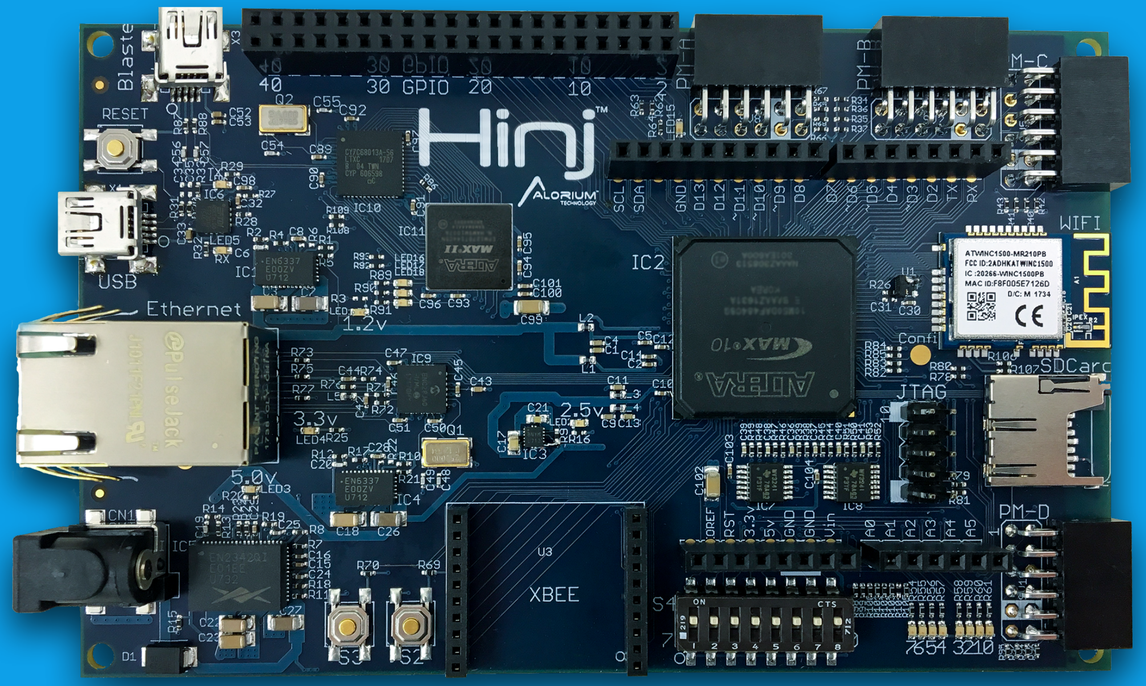
Hinj

Intel MAX 10
IoT Sensor Hub
Development Board



ALORIUM TECHNOLOGY

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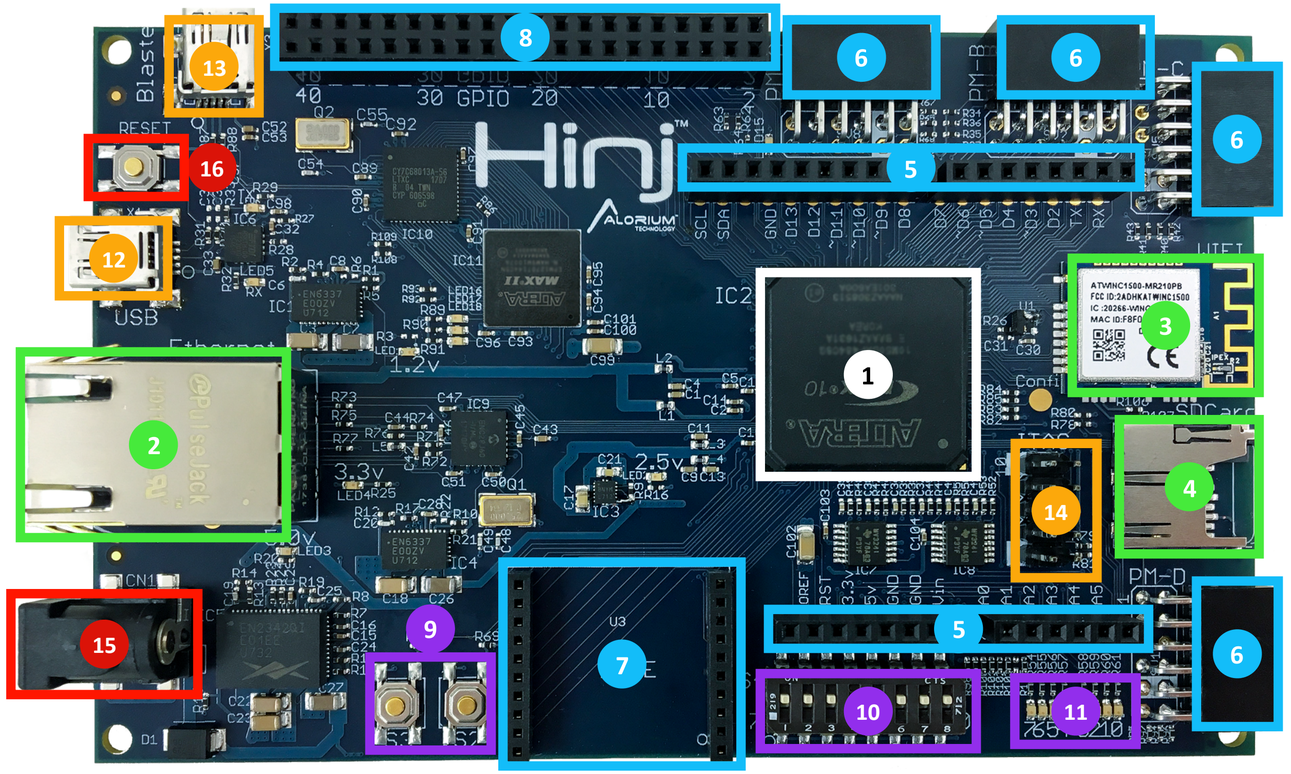
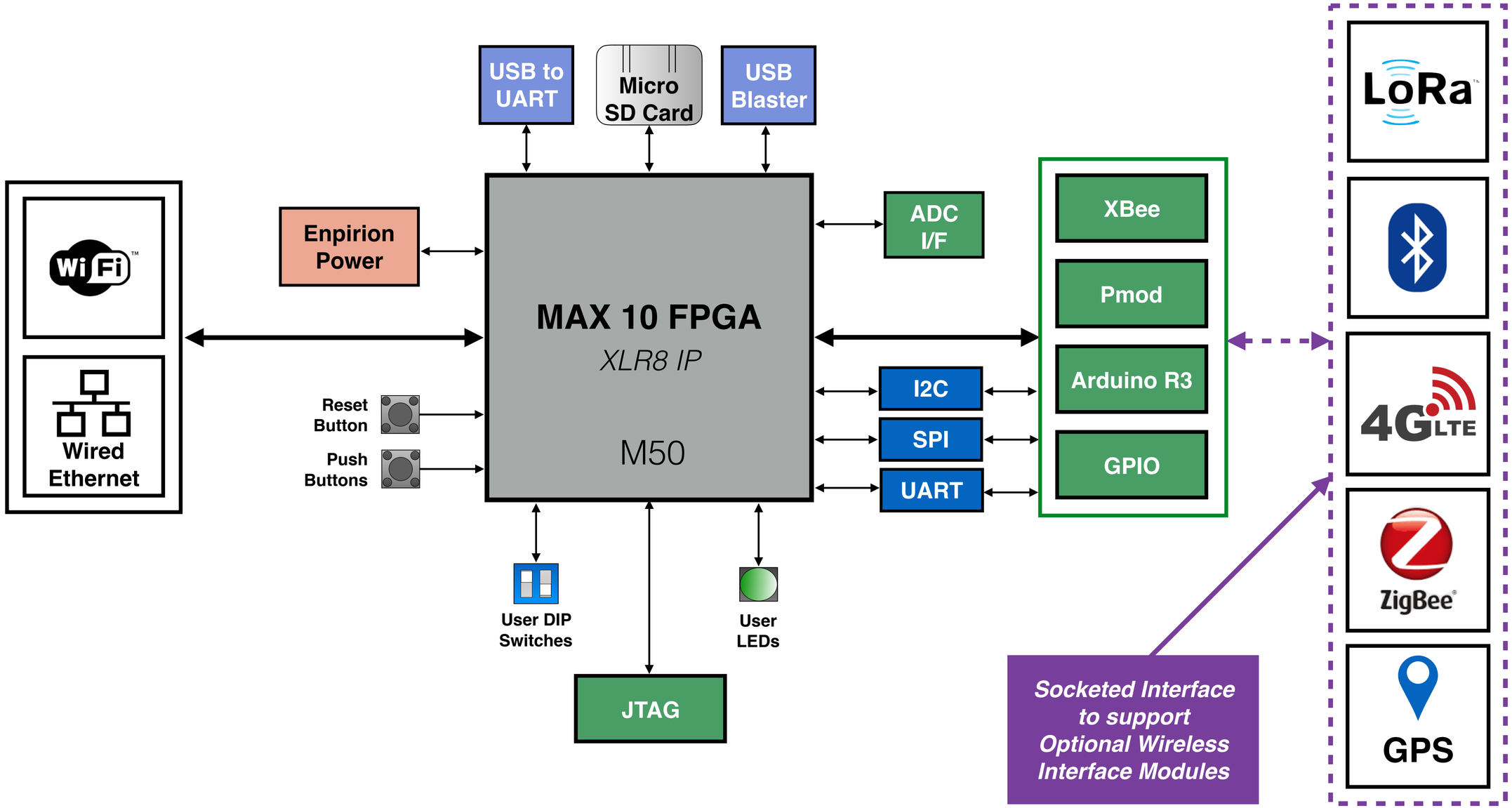
ID	Description
1	Intel MAX 10 FPGA
2	Ethernet Port
3	WiFi Module
4	MicroSD Card Slot
5	Arduino R3 Headers
6	PMOD Interfaces
7	XBEE Module Header
8	GPIO Interface



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 Connecter Power Jack**
16	**Reset Button**

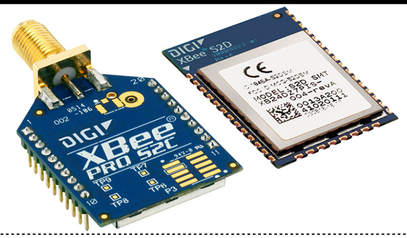
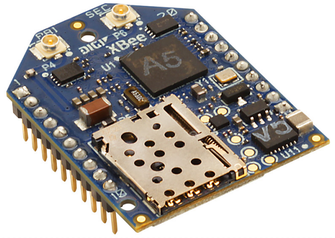
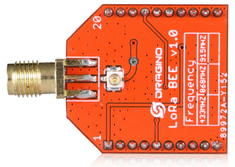
Hinj Block Diagram



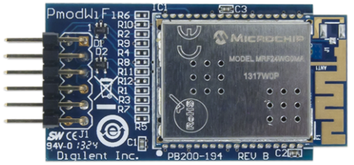
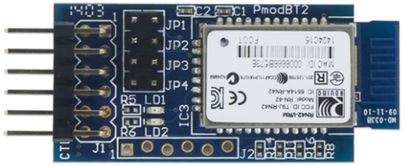
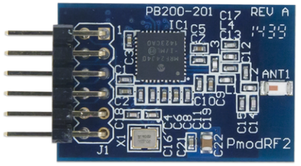
Key Features / Specifications

- **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
  - BLE
  - 4G Cellular
  - ZigBee
  - GPS
  - 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
	Pmod WiFi: WiFi Interface 802.11g	Digilent
	Pmod BT2: Bluetooth Interface	Digilent
	Pmod GPS: GPS Receiver	Digilent
	Pmod RF2: IEEE 802.15 RF Transceiver	Digilent
	Pmod NIC100: Network Interface Controller	Digilent

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