

(Schedule of Quantity)

| Sr. No. | Name of Item/Equipment | Qty. |
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| 14 | IOT Development board 1) Arduino MKR IoT Bundl <ul style="list-style-type: none"> • UPC: 813747020152 • The Arduino IoT kit is a great way to get started with the Internet of Things. • The Arduino kit includes the components you need to make 5 IoT projects following the step-by-step online tutorials on the Arduino Project Hub online platform. • This Arduino kit is based around the MKR1000—a powerful board that combines the functionality of the Zero and the Wi-Fi Shield. • Arduino enables Makers to add connectivity to their designs with minimal prior networking experience. | 03 |
| | 2) ARDUINO MKR WAN 1300 <ul style="list-style-type: none"> • Based on SAMD21 and a Murata CMWX1ZZABZ Lo-Ra module • Powered using two 1.5V AA or AAA batteries or external 5V • Arduino software (IDE) for code development and programming • No of bits:32 • Silicon Core Number: SAMD21, CMWX1ZZABZ • Kit Contents: Dev Board MKR WAN 1300 • Core Sub-Architecture: Cortex-M0+ • Core Architecture: ARM | 03 |
| | 3) Development Board, Arduino MKR WiFi with headers Low power WiFi with Cryptochip for SHA-256 encrypted secure communication <ul style="list-style-type: none"> • Supports the Arduino Software IDE for development and programming • Integrated Li-Po charging circuit allows the shield to run on battery or external power whilst charging the battery • 32-bit ARM Cortex-M0+ • 48MHz Clock speed • Digital I/O pins: 22 • Analogue I/O pins: 7/1 • Interfaces: I2C, I2S, SPI, UART • Operating voltage: 3.3V • Input voltage: 5V | 03 |

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| | <p>4) BeagleBone Black Cape, LCD, 7", Capacitive Touchscreen with Cover Lens Bezel</p> <ul style="list-style-type: none"> • Capacitive touch Gen4 LCD CAPE module with cover lens bezels (CLB) and 7" primary TFT display. • This module features a capacitive touch screen controlled by a Focaltech capacitive touch controller which interfaces the display and Beagle Bone Black (BBB) via I2C protocol. • The Beagle Bone Black (BBB) connects directly to an adaptor CAPE using a 30-way FFC ribbon cable. The LCD CAPE requires power and display signals which are provided from the BBB directly via the adapter and FFC ribbon cables. • 4DCAPE is not compatible with the Beagle Bone White and can only be used with Beagle Bone Black • 800 x 480 resolution • EEPROM CAPE ID selection via DIP switch • Offers significant improvement over the analogue interface of previous 4DCAPE models | 03 |
| | <p>5) ARM Cortex-5 General Purpose dev. Board with Debugger</p> <p>Features:</p> <ul style="list-style-type: none"> • Core: ARM®32-bit Cortex®-M4 CPU with FPU, Adaptive real-time accelerator (ART Accelerator™) allowing 0-wait state execution from Flash memory, frequency up to 168 MHz, memory protection unit, 210 DMIPS/1.25 DMIPS/MHz (Dhrystone 2.1), and DSP instructions • Memories • Up to 1 Mbyte of Flash memory • Up to 192+4 Kbytes of SRAM including 64-Kbyte of CCM (core coupled memory) data RAM • 1.8 V to 3.6 V application supply and I/Os • POR, PDR, PVD and BO • 4-to-26 MHz crystal oscillator • Internal 16 MHz factory-trimmed RC (1% accuracy) • 32 kHz oscillator for RTC with calibration • Internal 32 kHz RC with calibration • 3×12-bit, 2.4 MSPS A/D converters: up to 24 channels and 7.2 MSPS in triple interleaved mode • 2×12-bit D/A converters | 03 |
| | <p>6) Pixy 2 CMUcam5 Smart Vision Sensor</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Image sensor: Aptina MT9M114, 1296×976 resolution with integrated image flow processor • Processor: NXP LPC4330, 204 MHz, dual core • Lens field-of-view: 60 degrees horizontal, 40 degrees vertical • Power consumption: 140 mA typical | 03 |

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| | <ul style="list-style-type: none">• Power input: USB input (5V) or unregulated input (6V to 10V)• RAM: 264K bytes• Flash: 2M bytes• Available data outputs: UART serial, SPI, I2C, USB, digital, analog | |
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