Module Materials Price Sheet

# Introduction

This document will identify the materials and price of materials for each module within the course. Pricing is estimated from the prices of the items on February 1, 2023. Prices come from popular sites like Amazon or Resellers.

Note that peripherals like mice, keyboards, monitors, and other common items are not included in the materials. The lack of and need for these items will add to the costs.

Product links are provided but they are not a required location for purchasing the items.

Also note that these are prices per unit. Totals should be multiplied by the number unit expected.

# Wireshark Activity

## Hardware and Prices

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Hardware** | **Quantity** | | **Requirements/Notes** | **Price Estimate ($)** | **Product Link(s)** |  |
| Raspberry Pi 4 Model B |  | | >= 4GB Ram, product in link is 8GB | 150.00 | [Amazon](https://a.co/d/8TCIczh) |  |
| Raspberry Pi 4 Clear Case |  | | Clear for computer visibility | 10.00 | [Amazon](https://a.co/d/dFa0SJM) |  |
| Micro SD card |  | | >= 32GB | 8.00 | [Amazon](https://a.co/d/6Pk3x48) |  |
| Power Supply |  | | In: 100-240V, 50-60Hz, 1.5A  Out: 5.0V, 3.6A, 18.0W | 12.00 | [Amazon](https://www.amazon.com/dp/B07W8XHMJZ?psc=1&ref=ppx_yo2ov_dt_b_product_details) |  |
| Ethernet Cable |  | | >= Cat 6 | 13.00 | <https://a.co/d/fXm9tPk> | \* |
| HDMI Cable |  | | Micro HDMI to HDMI | 7.00 | [Amazon](https://a.co/d/e2GRtJm) |  |
|  | | **Estimated Total** | | 231.00 |  |  |

\* Only need if utilizing wired network

## Alternative Hardware Purchasing

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Price Estimate** | **Product Link(s)** | **Notes** |
| Raspberry Pi 4 Model B Kit | 230.00 | <https://a.co/d/2lPdhwV> | RPi, Micro SD, 2 HDMIs, Power Supply, Case w/Fan, 4GB Ram |
| **Total** | 230.00 |  |  |

# USB Sanitizer

## Hardware and Prices

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Requirements/Notes** | **Price Estimate ($)** | **Product Link(s)** |
| Raspberry Pi 4 Model B | >= 2GB Ram, product in link is 4GB | 170.00 | <https://a.co/d/eJcw55s> |
| RPi 4 B Case | Not essential, but recommended for protection | 6.00 | <https://a.co/d/bLr6Md6> |
| **Total** | | 176.00 |  |

## Alternative Hardware

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Price Estimate** | **Product Link(s)** | **Notes** |
| Raspberry Pi 4 Model B Kit | 230.00 | <https://a.co/d/2lPdhwV> | RPi, Micro SD, 2 HDMIs, Power Supply, Case w/Fan, 4GB Ram |
| **Total** | 230.00 |  |  |

# Man in the Middle Attack

This module and lab could be implemented on the same devices used for the Wireshark Activity.

## Hardware and Prices

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Requirements/Notes** | **Price Estimate ($)** | **Product Link(s)** |
| Raspberry Pi 4 Model B | >= 4GB Ram, product in link is 8GB | 190.00 | <https://a.co/d/0SDXAUd> |
| Micro SD card | >= 32GB | 10.00 | <https://a.co/d/glKhH8U>  <https://a.co/d/6qdbNmi> |
| Power Supply | In: 100-240V, 50-60Hz, 1.5A  Out: 5.0V, 3.6A, 18.0W | 11.00 | <https://a.co/d/bVGBAbS> |
| Ethernet Cable | >= Cat 6 | 13.00 | <https://a.co/d/4wjA9EQ> |
| HDMI Cable | Micro HDMI to HDMI | 7.00 | <https://a.co/d/e2GRtJm> |
| **Total** | | 231.00 |  |

## Alternative Hardware

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Price Estimate** | **Product Link(s)** | **Notes** |
| Raspberry Pi 4 Model B Kit | 230.00 | <https://a.co/d/2lPdhwV> | RPi, Micro SD, 2 HDMIs, Power Supply, Case w/Fan, 4GB Ram |
| **Total** | 230.00 |  |  |

# SCADA Cyber Attacks History

## Hardware and Prices

None

## Alternative Hardware

None

# Log Analysis Activity

This Activity can also be performed on the Network Device setup in the Wireshark Activity and MiTM Attack.

## Hardware and Prices

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Requirements/Notes** | **Price Estimate ($)** | **Product Link(s)** |
| Raspberry Pi 4 Model B | >= 4GB Ram, product in link is 8GB | 190.00 | <https://a.co/d/0SDXAUd> |
| Micro SD card | >= 32GB | 10.00 | <https://a.co/d/glKhH8U>  <https://a.co/d/6qdbNmi> |
| Power Supply | In: 100-240V, 50-60Hz, 1.5A  Out: 5.0V, 3.6A, 18.0W | 11.00 | <https://a.co/d/bVGBAbS> |
| Ethernet Cable | >= Cat 6 | 13.00 | <https://a.co/d/4wjA9EQ> |
| HDMI Cable | Micro HDMI to HDMI | 7.00 | <https://a.co/d/e2GRtJm> |
| **Total** | | 231.00 |  |

## Alternative Hardware

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Price Estimate** | **Product Link(s)** | **Notes** |
| Raspberry Pi 4 Model B Kit | 230.00 | <https://a.co/d/2lPdhwV> | RPi, Micro SD, 2 HDMIs, Power Supply, Case w/Fan, 4GB Ram |
| **Total** | 230.00 |  |  |

# Hardware Hacking

## Hardware and Prices

|  |  |  |  |
| --- | --- | --- | --- |
| **Hardware** | **Requirements/Notes** | **Price Estimate ($)** | **Product Link(s)** |
| BeagleBone Black Rev C | >= 4GB Ram | 85.00 | <https://a.co/d/7QYlFJk> |
| Salae Logic 8 | 8 Channels | 480.00 | <https://a.co/d/8LucSJG> |
| Adafruit Trinket – Mini Microcontroller | 5V Logic | 12.00 | [Amazon](https://www.amazon.com/s?k=adafruit+trinket+mini+microcontroller+5v&i=electronics&crid=2PT4N986GXUV9&sprefix=adafruit+trinket+mini+microcontroller+5v%2Celectronics%2C129&ref=nb_sb_noss) |
| Adafruit ItsyBitsy 32u4 | 3V, 8MHz | 10.00 | [Adafruit](https://www.adafruit.com/product/3675?gclid=CjwKCAiAuOieBhAIEiwAgjCvcsdme_UNmyjSAuJlgMzx6qbKPd2weDgSFRw4JPjZvwQIADdXqtCb4BoCZ3gQAvD_BwE) |
| Arduino Leonardo | Comes with USB | 16.00 | <https://a.co/d/dgiVl12> |
| **Total** | | 603.00 |  |

## Alternative Hardware

None

# Recommended Initial Purchases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Price** | **Quantity** | **Module** | **Link** |
| Raspberry Pi 4 Model B Kit | 230.00 | 1 | * Wireshark Activity * MiTM Attack * Log Analysis | <https://a.co/d/2lPdhwV> |
| Raspberry Pi 4  Model B | 170.00 | 1 | * USB Sanitizer | <https://a.co/d/eJcw55s> |
| RPi 4 B Case | 6.00 | 1 | * USB Sanitizer | <https://a.co/d/bLr6Md6> |
| BeagleBone Black Rev C | 85.00 | 1 | * Hardware Hacking | <https://a.co/d/7QYlFJk> |
| Salae Logic 8 | 480.00 | 1 | * Hardware Hacking | <https://a.co/d/8LucSJG> |
| Adafruit Trinket – Mini Microcontroller | 12.00 | 1 | * Hardware Hacking | [Amazon](https://www.amazon.com/s?k=adafruit+trinket+mini+microcontroller+5v&i=electronics&crid=2PT4N986GXUV9&sprefix=adafruit+trinket+mini+microcontroller+5v%2Celectronics%2C129&ref=nb_sb_noss) |
| Adafruit ItsyBitsy 32u4 | 10.00 | 1 | * Hardware Hacking | [Adafruit](https://www.adafruit.com/product/3675?gclid=CjwKCAiAuOieBhAIEiwAgjCvcsdme_UNmyjSAuJlgMzx6qbKPd2weDgSFRw4JPjZvwQIADdXqtCb4BoCZ3gQAvD_BwE) |
| Arduino Leonardo | 16.00 | 1 | * Hardware Hacking | <https://a.co/d/dgiVl12> |
| **Total** | 1,009.00 |  |  |  |