CEE690 – Node Components

RFM95 - $8

<https://github.com/SeeedDocument/RFM95-98_LoRa_Module/blob/master/RFM95_96_97_98_DataSheet.pdf>

<https://www.amazon.com/gp/product/B07KZPQ4GB/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1>

BN-280 GPS Module - $10

<http://surehobby.com/desc/HR/HR5512/BN_220_GPS_Antenna_datasheet.pdf>

<https://www.amazon.com/gp/product/B07TGJTCTB/ref=ppx_yo_dt_b_asin_title_o03_s00?ie=UTF8&psc=1>

ESP32-WROOM-32D $3.80 (or ESP32 WeMos D1)

<https://www.espressif.com/sites/default/files/documentation/esp32-wroom-32d_esp32-wroom-32u_datasheet_en.pdf>

MAX30102 - $7.99

<https://datasheets.maximintegrated.com/en/ds/MAX30102.pdf>

<https://www.amazon.com/gp/product/B07GGSM8SP/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1>

BME280 - $6.44

<https://cdn-shop.adafruit.com/datasheets/BST-BME280_DS001-10.pdf>

TP4056 - $1.20

<https://dlnmh9ip6v2uc.cloudfront.net/datasheets/Prototyping/TP4056.pdf>

<https://www.amazon.com/gp/product/B01DRT4PWY/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1>

IPEX UFL connector - $1.66

<https://www.amazon.com/gp/product/B071JNGHWQ/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1>

LoRa antenna - $2.75

<https://www.amazon.com/gp/product/B07LCKNN4H/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1>

2000 mAh LiPo battery - $10.49

<https://www.amazon.com/gp/product/B07BTV4J26/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1>

Watch strap - $5

<https://www.amazon.com/gp/product/B07BWGSMXS/ref=ppx_yo_dt_b_asin_title_o04_s00?ie=UTF8&psc=1>

**Digikey**

SMT Slide Switch - $0.71 [10]

<https://www.digikey.com/product-detail/en/nidec-copal-electronics/CUS-12TB/563-1102-1-ND/1124231>

Green Diffused LED - $0.68 [10]

<https://www.digikey.com/product-detail/en/sunled/XSDG23MB/1497-1042-ND/4745857>

100k Ohm Resistors, 0805 SMT - $0.36 [15]

<https://www.digikey.com/product-detail/en/panasonic-electronic-components/ERA-6AEB104V/P100KDACT-ND/1465995>

10k Ohm Resistors, 0805 SMT - $0.10 [10]

<https://www.digikey.com/product-detail/en/stackpole-electronics-inc/RNCP0805FTD10K0/RNCP0805FTD10K0CT-ND/2240601>

330 Ohm Resistors, 0805 SMT - $0.10 [10]

<https://www.digikey.com/product-detail/en/rohm-semiconductor/ESR10EZPJ331/RHM330KCT-ND/1763012>

0.1 uF Capacitors, 0805 SMT - $0.66 [15]

<https://www.digikey.com/product-detail/en/panasonic-electronic-components/ECP-U1C104MA5/PCF1126CT-ND/285453>

Digikey Order Total: $25.22