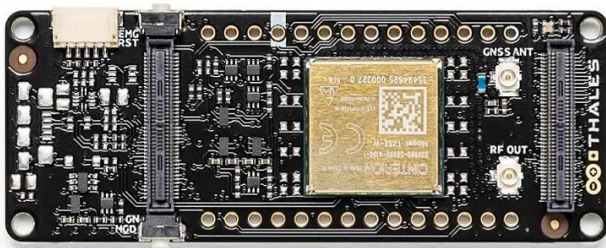


Item no.: 353158

## ASX00027 - Portenta CAT. M1/NB IoT GNSS Shield

from **86,32 EUR**

Item no.: 353158  
shipping weight: 0.10 kg  
Manufacturer: Arduino



### Product Description

#### Portenta CAT. M1/NB IoT GNSS Shield

The Portenta Cat. M1/NB IoT GNSS Shield allows you to enhance the connectivity features of your Portenta H7 applications. The shield leverages a Cinterion TX62 wireless module by Thales, designed for highly efficient, low-power IoT applications to deliver optimized bandwidth and performance.

The Portenta Cat. M1/NB IoT GNSS Shield combines with the strong edge computing power of the Portenta H7 to enable the development of asset tracking and remote monitoring applications in industrial settings, as well as in agriculture, public utilities and smart cities. The shield offers cellular connectivity to both Cat. M1 and NB-IoT networks with the option to use eSIM technology. Easily track your valuables – across the city or worldwide – with your choice of GPS, GLONASS, Galileo or BeiDou.

- Connectivity: Cinterion TX62 wireless module; NB-IoT - LTE CAT. M1; 3GPP Rel.14 Compliant Protocol LTE Cat. M1/NB1/NB2; UMTS BANDS: 1/2/3/4/5/8/12 (17)/13/18/19/20/25/26/27/28/66/71/85; LTE Cat. M1 DL: max. 300 kbps, UL: max. 1.1 Mbps; LTE Cat. NB1 DL: max. 27 kbps, UL: max. 63 kbps; LTE Cat. NB2 DL: max. 124 kbps, UL: max. 158 kbps
- Short message service (SMS): Point-to-point mobile terminated (MT) and mobile originated (MO) Text Mode; Protocol Data Unit (PDU) Mode
- Localization support: GNSS capability (GPS/BeiDou/Galileo/GLONASS)
- Dimensions: 66 mm x 25.4 mm
- Other: Embedded IPv4 and IPv6 TCP/IP stack access; Internet Services: TCP server/client, UDP client, DNS, Ping, HTTP client, FTP client, MQTT client Secure Connection with TLS/DTLS Secure boot
- Operating temperature: -40°C to +85°C (-104°F to 185°F)

### Specifications

Scan this QR code to  
view the product  
All details, up-to-date  
prices and availability

