



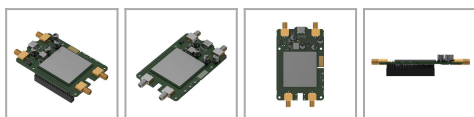
TELTONIKA CALYX 5G, EBD050, EMBEDDED CELLULAR RASPBERRY PI HAT+



link to the product:

<https://www.batna24.com/gb/p/lte-5g/teltonika-calyx-5g-ebd050-embedded-cellular-raspberry-pi-hat>

Price: **1,117.43 zł** gross / 908.48 zł net



Manufacturer: TELTONIKA

Referention number: DNXGKMMKKRMMNM

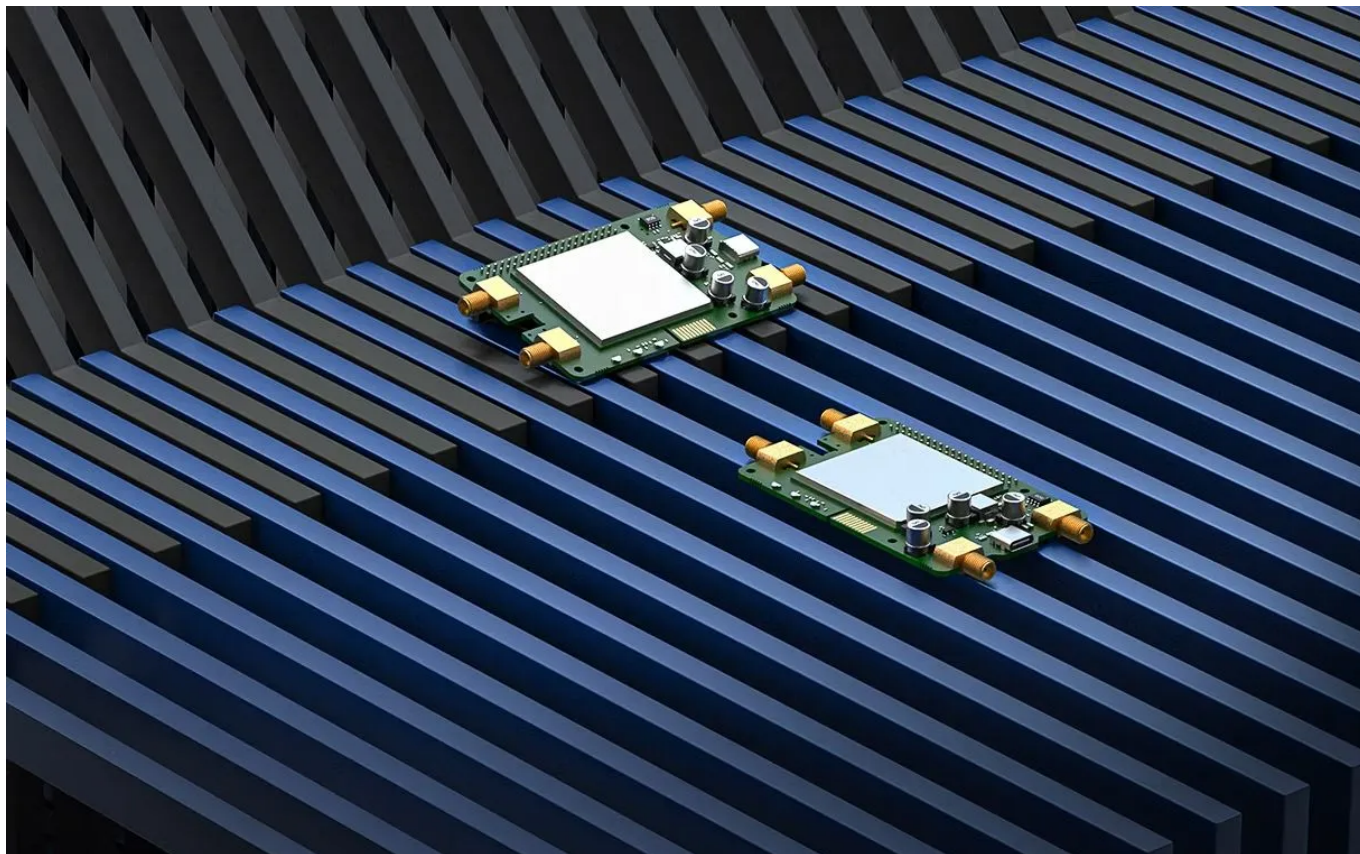
Information:

Teltonika Calyx 5G (EBD050) is an embedded cellular module in HAT+ format for Raspberry Pi 4 and 5, providing stable 5G Sub-6 GHz SA/NSA connectivity with fallback to 4G LTE Cat 19. Thanks to 4x4 MIMO, USB 3.0 via USB-C and four SMA connectors, it offers high performance, easy integration and flexible antenna selection. GPIO control makes reset, wake-up and power management easier, while PCM audio support enables voice solutions. Its compact design, operating range from -40 °C to +75 °C and included mounting accessories make it a robust solution for monitoring, IoT, automation and edge projects.

Full product description

5G and integration with Raspberry Pi

Teltonika Calyx 5G (**EBD050**) is an embedded cellular module in HAT+ format for **Raspberry Pi 4 and 5**, designed for projects requiring stable access to a mobile network. Direct mounting on the SBC reduces occupied space and simplifies integration in embedded systems
[web:6][web:10].



Key advantages

- **5G Sub-6 GHz SA/NSA** – provides high throughput in applications with heavy data transfer [web:7][web:11].
- **4x4 MIMO** – increases connection performance for video transmission and real-time operation [web:7].
- **USB 3.0 via USB-C** – shortens data transfer time and simplifies connection to Raspberry Pi [web:2][web:7].
- **4 SMA connectors** – offers convenient antenna selection and better operating conditions in the field [web:1][web:4].
- **Modem control via GPIO** – enables reset, wake-up and control from the Pi [web:5][web:10].
- **Operating range -40 °C to +75 °C** – suitable for industrial and outdoor installations [web:4][web:9].



Connectivity without compromise

The **EBD050** version supports 5G NR SA/NSA and fallback to **4G LTE Cat 19**, so it maintains a connection even where 5G coverage can be variable. In practice, this means more stable operation for monitoring, telemetry, IoT gateways and edge systems that cannot rely solely on Wi-Fi or Ethernet [web:7][web:10].



Compact design

The enclosure, measuring **56 x 23.11 x 100.8 mm** and weighing **57 g**, makes it easy to create a compact build without unnecessary adapters and loose cables. Direct mounting on Raspberry Pi reduces the risk of accidental disconnection and tidies up the layout in end devices [web:2][web:4].



GPIO and PCM audio

The module uses **40-pin GPIO** to control the modem, making automatic wake-up, restart and power management easier. **PCM audio** support provides low-latency digital audio transmission, useful in voice solutions, communication gateways and specialised integrations [web:5][web:10].



Practical applications

Teltonika Calyx 5G is ideal where quick deployment and remote device operation matter: in automation, monitoring, kiosks, telemetry systems and prototype projects. The included mounting kit, GPIO extension and USB-C to USB-A accessory make deployment easier without having to source additional components [web:4][web:10].



Bands and compatibility

The **5G / EBD050** variant supports a wide range of 5G NR, LTE and 3G bands, increasing the chances of operation across different networks and locations. This is important in multi-stage deployments, where the device must maintain connectivity despite changing operator infrastructure [web:1][web:7].



A solution for integrators

Calyx 5G combines a mobile modem, hardware control and a compact form in one module, making it easier to build Raspberry Pi-based devices. It is a practical base for integrators and developers who need **industrial-grade cellular connectivity** without complicating the project with additional interfaces [web:10][web:12].

