

# CALYX

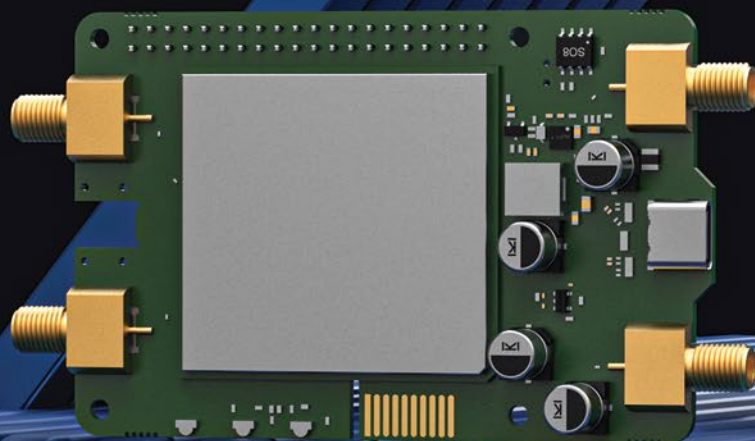
## EMBEDDED CELLULAR RASPBERRY PI HAT+



CALYX 360° VIEW

CALYX embedded Raspberry Pi HAT+ is purpose-built to provide seamless mobile internet to your embedded systems. Available in three variants – 4G Cat 4, 5G Redcap, and full-fledged 5G – CALYX provides cellular connection to your Raspberry Pi 4 or 5 wherever Wi-Fi or Ethernet are unavailable or unreliable.

CALYX mounts directly on top of your SBC computer, saving space and ensuring clean integration. Equipped with features like GPIO modem control and PCM audio support, CALYX offers compact and feature-rich cellular expansion for integrators and developers.



### OPTIMAL FORM FACTOR

Mount seamlessly on  
Raspberry Pi 4/5

### GPIO MODEM CONTROL

Wake, reset, and manage  
the modem via Pi pins

### PCM ENHANCED AUDIO

Enable clean, low-latency  
audio transfer

### VERSATILE CONNECTIVITY

Choose the right option: 4G Cat 4,  
5G Redcap, or full-fledged 5G

# KEY FEATURES

## HARDWARE

Powering options	Raspberry Pi 4/5 - 40 pin header - 5 VDC and 3.3 VDC; USB type C - 5 VDC
SIM	1 x SIM slot (Nano SIM - 4FF), push-pull
Status LEDs	1 x Power, NET IND, NET STAT
Operating temperature	-40 °C to 75 °C
Weight	57 g

### Calyx 4G / EBD021000000

Mobile	4G LTE-FDD (Cat 4) – 75Mbps DL, 50Mbps UL; LTE-TDD (Cat 4) – 65Mbps DL, 35Mbps UL; DC-HSPA+ – 42Mbps DL, 5.76Mbps UL; 3G – 384 kbps DL, 384 kbps UL, 2G EDGE – 236.8 kbps DL, 236.8 kbps UL, 2G GPRS – 85.6 kbps DL, 85.6 kbps UL
Antenna connectors	2 x SMA for Mobile
Dimensions (W x H x D)	56 x 23.11 x 95.48 mm

### Calyx 5G / EBD050000000

Mobile	5G Sub-6Ghz SA/NSA 2.4/3.4Gbps DL (4x4 MIMO), 900/550 Mbps UL (2x2); 4G LTE Cat 19 up to 1.6 Gbps DL/ 200 Mbps UL; 3G up to 42 DL/ 5.76 UL Mbps
Antenna connectors	4 x SMA for Mobile
Dimensions (W x H x D)	56 x 23.11 x 100.8 mm

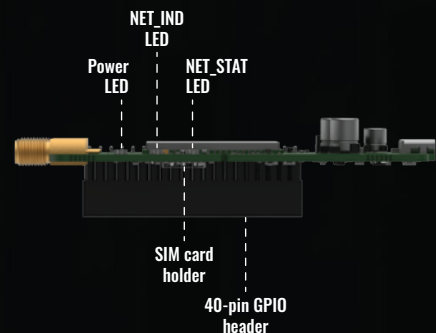
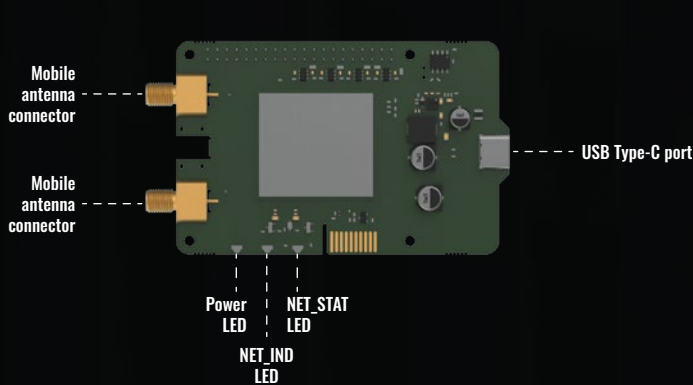
### Calyx 5G Red Cap / EBD070000000

Mobile	5G Sub-6Ghz SA 223 Mbps DL/123 Mbps UL; 4G LTE (Cat 4) up to 195 Mbps DL/105 Mbps UL
Antenna connectors	2 x SMA for Mobile
Dimensions (W x H x D)	56 x 23.11 x 95.48 mm

## TOP VIEW

## LEFT VIEW

### Calyx 4G & 5G Redcap Hardware



### Calyx 5G Hardware

