

# EA5165N (Gloria)

High Performance AI Edge box for Cutting-Edge On-Premise Solution



## Powered by Qualcomm® QRB5165N

The Qualcomm® QRB5165N SoC integrates 64-bit Qualcomm® Kryo™ 585 application processor, Qualcomm® Adreno™ 650 GPU and Qualcomm® NPU230 dedicated neural processing unit into a single chip that empowers the edge box to be the next generation of high-compute, AI-enabled and low-power turnkey solution.

## Application

Retail

Smart Home

Smart City

Factory

Agriculture

Transportation

## Compact Design, Incredible Computing Power

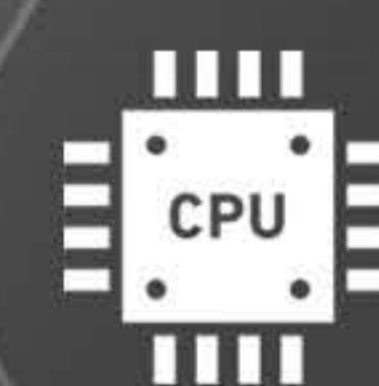
With build-in Qualcomm® Cloud AI 100 inference accelerator, the product delivers up to 200 TOPS of AI performance at ultra low power consumption, making it optimized to perform instantaneous AI tasks across retail stores, factories, warehouses, households, and smart cities.

## Superior Video Multiprocessing Capability

Empowered by Qualcomm® QRB5165N SoC, EA5165N is capable of processing live video streams from 24 Full-HD cameras. Its superior multiprocessing capability benefits video analytic applications such as traffic monitoring and facial recognition.

## 5G Ready for Broad Based Deployment

With optional 5G connectivity, Gloria offers a perfect turnkey solution for broad based deployment in remote locations where Wi-Fi or LAN connection is not easily accessible. Utilizing high bandwidth and fast connectivity of 5G technology, AI inference is enabled to accelerate in an instant.



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200 TOPS of AI Performance



Support 24 Full-HD Cameras

5G

5G Ready



UFS3.0 128GB



# EA5165N

## Specifications



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### Processor

- CPU: 8-core Qualcomm® Kryo™ 585 CPU with 1 x Kryo™ 585 Gold Prime, 3 x Kryo™ 585 Gold, 4 x Kryo™ 585 Silver
- GPU: Qualcomm® Adreno™ 650 GPU
- NPU: Qualcomm® Neural Processing Unit (NPU230)



### AI Engine

- Qualcomm® Cloud AI 100
- DM.2e (70 TOPs int8)
- DM.2e (200 TOPs int8)



### Memory

LPDDR5 8GB



### Storage

Flash: UFS3.0 128GB  
SD Card: 1 x MicroSD



### Expansion Slots

- 1 x M.2 2280/22110 (B+M Key) for SSD Module
- 1 x M.2 3042 (B Key) & 1 x MicroSIM Card for 5G Module
- 1 x Dual M.2 46110 (M Key) for AI Module



### System I/O

- 1 x 4-pin DC Connector
- 2 x USB 3.1 Type A, 2 x Micro USB
- 1 x HDMI Output, Supporting HDMI 1.4b
- 3 x GMSL Qual Ports for 12-Channel Cameras
- 1 x RS485 Port & 1 x RS232 Port through Terminal Block
- 2 x GbE RJ45 Ports
- 1 x Audio (Mic-in/Line-out)
- 1 x Power Switch with LED
- 1 x Reset Button



### Antennas

4 x 5G NR Antennas SMA



### Power

Input Voltage Range:  
DC Terminal Block 12-24 Vdc / 110-240 Vac  
Estimated Power Consumption: 45W



### Operating System

Linux Ubuntu 18.04



### SDK

Qualcomm® Intelligent Multimedia SDK



### Ingress Protection

IP40



### Chassis Dimensions (H x W x D)

8.39" x 11.57" x 3.35" /  
213.0mm x 294.0mm x 85.0mm



### Installation

Desktop, Wall-mount



### Operating Temperature

-10°C to 50°C (14°F to 122°F)

### Non-operating Temperature

-40°C to 85°C (-40°F to 185°F)

### Operating Relative Humidity

5% to 95%RH @ 40°C



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