

EA5165N

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



Powered by Qualcomm® QRB5165N

The Qualcomm® QRB5165N SoC integrates 64-bit Quad-core 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.

Incredible AI Computing Power

With build-in Qualcomm® Cloud AI 100 inference accelerator, the product delivers up to 70 trillion operations per second (TOPS) of performance at ultra low power consumption, making it optimized to perform instantaneous AI task across retail stores, factories, warehouses, households, and smart cities.

Application

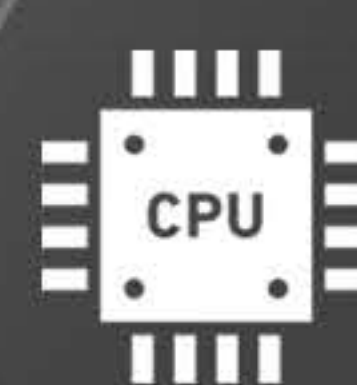
- Retail
- Smart Home
- Smart City
- Factory
- Agriculture
- Transportation

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, the product 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.



Powered by
Qualcomm®
QRB5165N SoC



70 TOPS of
AI Performance



Support 24 Full-HD
Cameras

5G

5G Ready



UFS3.0 128GB

EA5165N

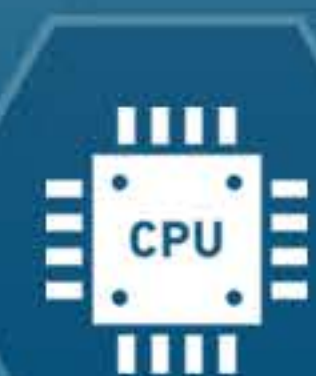
Specifications



North America: +1 408-727-8060



Email: Sales@ingrasys.com



Processor

- CPU: Quad-core Qualcomm® Kryo™ 585 CPU
- GPU: Qualcomm® Adreno™ 650 GPU
- NPU: Qualcomm® Neural Processing Unit (NPU230)



AI Engine

Qualcomm® Cloud AI 100



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



The information in this document is subject to change without notice. Ingrasys, the Ingrasys logo are trademarks or registered trademarks of Ingrasys Technology Inc. All logos, trademarks and registered trademarks are the property of their respective owners.

© 2021 Ingrasys Technology Inc. All rights reserved.