



gyrfalcon
technology

Lightspeeur[®] 2803 Neural Accelerator

Industry's Best Ratio of Performance-to-Power

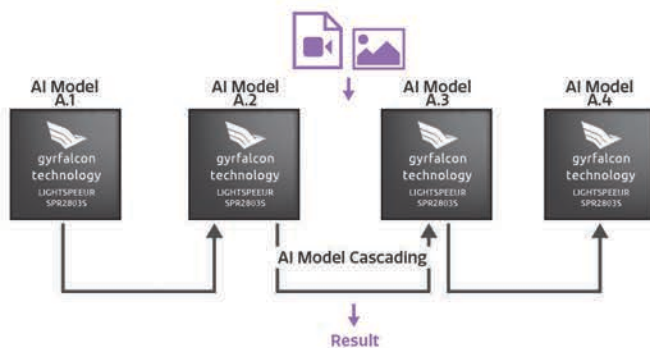
Lightspeeur[®] 2803 is the latest generation AI neural accelerator for applications requiring high-performance CNN processing for advanced edge, desktop and data center deployments.

Gyr Falcon's 100% proprietary and patented technologies accelerate CNN processing at extremely high speeds, while consuming very little power.

The architecture uses a unique 2-dimensional Matrix Processing Engine (MPE™) with AI Processing in Memory (APiM™). AI processing memory blocks reduce power requirements and improve performance.

Deploy Larger Networks

Cascade models across multiple chips to support larger models, such as ResNet-101, ResNet-152, etc.



HIGH PERFORMANCE
24 TOPs/Watt

LOW COST
Priced for scale

SMALL SIZE
9mm x 9mm

BEST PEAK PERFORMANCE
16.8 TOPs @ 300MHz

ULTRA LOW POWER
16.8 TOPs @ 700mW

Performance Specifications

- TOPS: 16.8
- Power: 700mW
- Efficiency: 24 TOPS/Watt
- Clock Speed: 250 MHz

Supported Models

- VGG
- ResNet
- MobileNet

Supported Frameworks

- TensorFlow
- Caffe

Deployment Options

- USB Dongle
- Embedded Design
- Data Center

AI Model Processing Capabilities

- Model Cascade Processing
- Model Parallel Processing

Targeted Inference Applications

- Image Recognition
- Object Detection and Tracking
- Natural Language Processing
- Natural Language Understanding
- Business Intelligence
- Visual Analysis