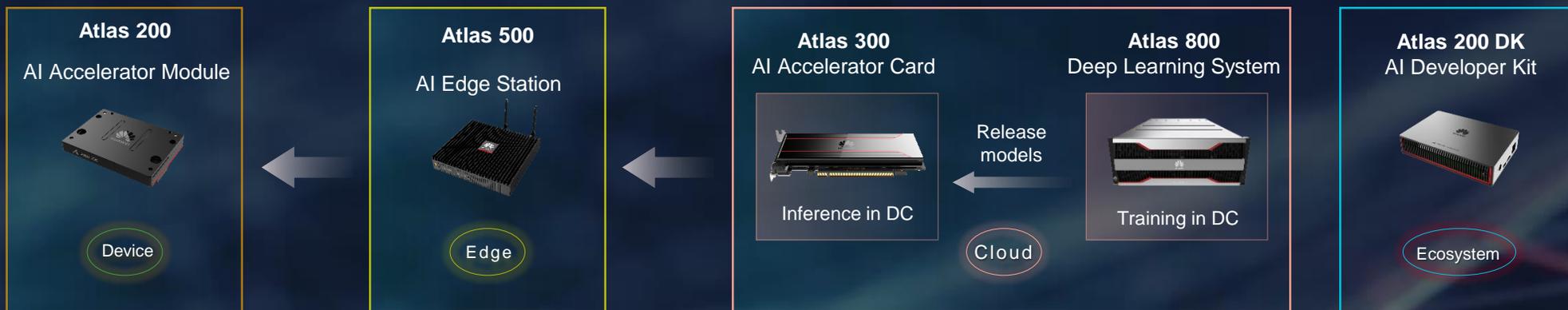


Atlas

AI Computing Platform

Break through boundaries



Break through compute power

Chip

Da Vinci Architecture



Ascend 310



Ascend 910

Ascend AI Chip



Ascend 310

AI SoC with ultimate efficiency

Ascend-Mini Da Vinci Architecture

- Half precision (FP16): 8 TFLOPS
- Integer precision (INT8): 16 TOPS
- 16-channel full-HD video decoder: H.264/265
- 1-channel full-HD video encoder: H.264/265
- Max. power consumption: 8 W
- 12nm

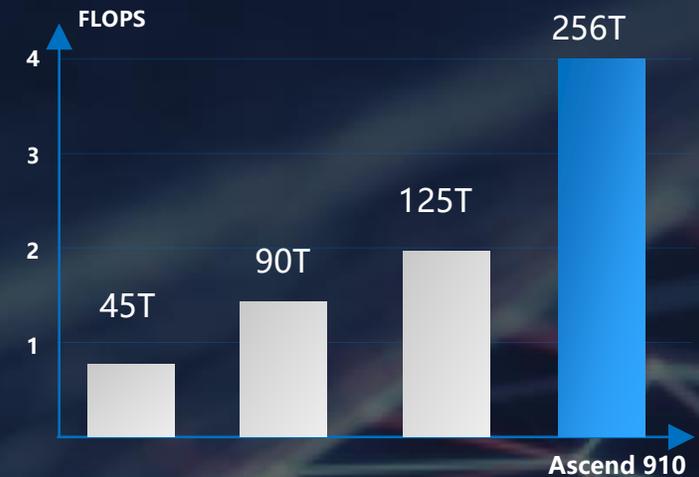


Ascend 910

Highest compute density on a single chip

Ascend-Max Da Vinci Architecture

- Half precision (FP16): 256 TFLOPS
- Integer precision (INT8): 512 TOPS
- 128-channel full-HD video decoder: H.264/265
- Max. power consumption: 350 W
- 7nm



* Normalized to 16-bit

Atlas 200 AI Accelerator Module

Superb Compute in a Compact Size



52 mm x 38 mm x 10 mm



- 16 TOPS of INT8
- 16-channel HD video real-time analytics, JPEG decoding
- 4 GB/8 GB memory, PCIe 3.0 x4 interface
- Operating temperature: -25°C to +80°C



Cameras

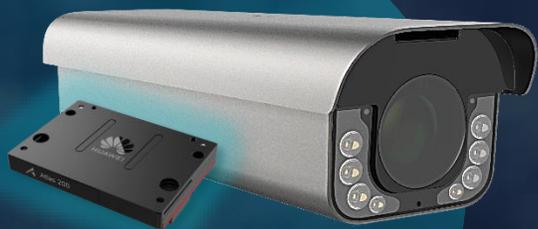


Drones



Robots

Atlas 200 Brings an 7x Leap to AI Camera Performance

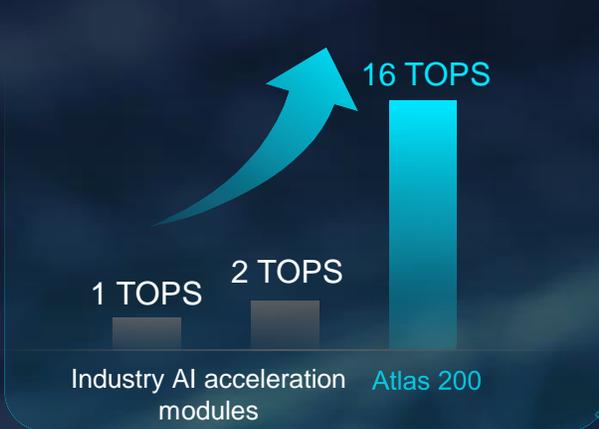


Runs multiple algorithms in parallel

Pixel-Level Image Segmentation

- ✓ Facial recognition
- ✓ Human body identification
- ✓ Vehicle identification

Super Powerful AI Accelerator Module



Facial recognition per frame 30 → 200

• Models in the demo are Huawei employees.



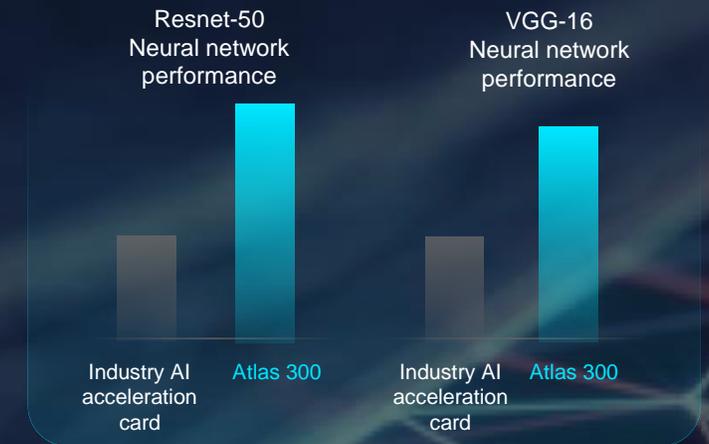
Atlas 300 AI Accelerator Card



Video Analytics | OCR | Speech Recognition |
Precision Marketing | Medical Image Analysis

- 64 TOPS of INT8 @ 67 W
- 32 GB memory
- 64-channel HD video real-time analytics
- Standard half-height half-length PCIe card form factor, applicable to general-purpose servers

Industry-leading Performance



Atlas 500 AI Edge Station



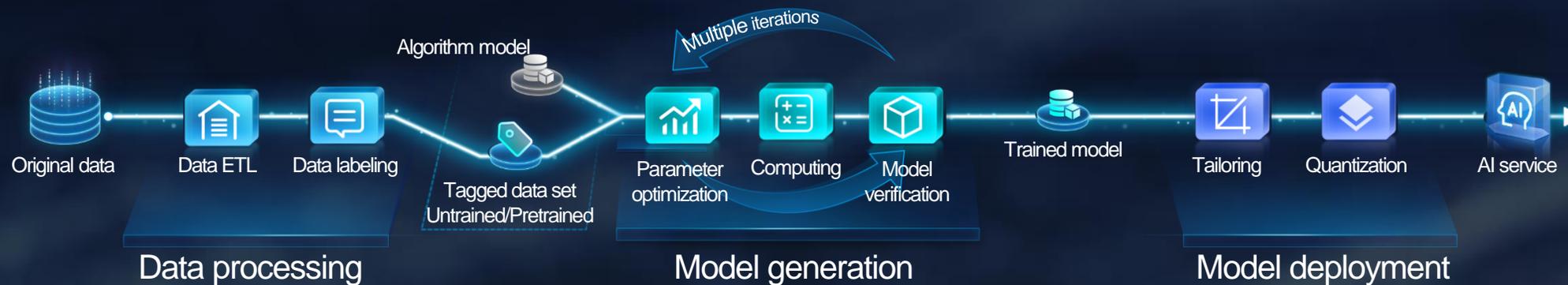
- 16 TOPS of INT8
- 25–40 W
- Wi-Fi & LTE
- 16-channel HD video real-time analytics
- Fanless design, running stably in -40°C to +70°C environments

Built for Harsh Edge Deployment Environments

Extreme cold | Extreme hot | Heavy dust



Atlas 800 Deep Learning System



2 hours Service rollout | Out-of-the-box

Atlas 200 DK AI Developer Kit

Quickly Build Development Environment in 30 Minutes

- 16 TOPS of INT8 @ 24 W
- 1 USB type-C, 2 camera interfaces, 1 GE port, 1 SD card slot
- 4 GB/8 GB memory



Quickly build development environment in 30 minutes



User-friendly GUI and a programming environment with graphical debugging capabilities



One-time development for device-edge-cloud all-scenario deployment



AI development kit with industry-leading computing capabilities

Powerful AI Developer Kit

