

17F1 Edge AI Box



Key Feature

- Jetson™ Orin NX: 157/117 TOPS, 16/8GB LPDDR5;
- Jetson™ Orin Nano: 67 TOPS, 8GB LPDDR5;
- Jetson™ Xavier NX: 21 TOPS, 16GB LPDDR4X
- I/O Interface: 1 × Type-C, 1 × PSDK, 1 × Nano SIM, 1 × OSDK
- Type-C: USB2.0, USB3.0, DisplayPort signals
- Built-in: Auto-dial 5G module; Wi-Fi optional
- Ingress Protection: IP66
- Dimensions: 96mm × 74mm × 47.3mm
- Weight: 235g
- Operating Temperature: -25°C ~ +65°C

Introduction

The 17F1 is an onboard edge AI computing platform powered by NVIDIA® Jetson™ series modules, optimized for drone AI applications including power line inspection, precision agriculture and smart warehouse management.

It offers scalable AI performance from 21 TOPS to 157 TOPS to match various workloads such as real-time image recognition, object detection and AI inference. With a compact design (96mm × 74mm × 47.3mm), it is fully compatible with DJI M300/M30/M350 series drones and DJI PSDK, supporting seamless integration with speakers, searchlights and professional payloads.



Website



Power line inspection



Precision agriculture monitoring



Intelligent Warehouse Management

Specifications

Module	Jetson Xavier NX 16GB	Jetson Orin Nano 8GB	Jetson Orin NX 8GB	Jetson Orin NX 16GB
AI Performance	21 TOPS	67TOPS	117TOPS	157TOPS
GPU	384-core NVIDIA Volta GPU with 48 Tensor Cores	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores		
CPU	6-core NVIDIA Carmel Arm®v8.2 64-bit CPU 6MB L2 + 4MB L3	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3		8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	16GB 128-bit LPDDR4x 59.7GB/s	8GB 128-bit LPDDR5 102 GB/s	8GB 128-bit LPDDR5 102.4GB/s	16GB 128-bit LPDDR5 102.4GB/s
Storage	16GB eMMC+ 128GB NVMe	(Support external NVMe)		
Video Encode	2x 4K60 (H.265) 4x 4K30 (H.265) 10x 1080p60 (H.265) 22x 1080p30 (H.265)	1080p30 supported by 1-2 CPU cores		1x 4K60 (H.265) 3x 4K30 (H.265) 6x 1080p60 (H.265) 12x 1080p30 (H.265)
Video Decode	2x 8K30 (H.265)、6x 4K60 (H.265) 12x 4K30 (H.265) 22x 1080p60 (H.265) 44x 1080p30 (H.265)	1x 4K60 (H.265) 2x 4K30 (H.265) 5x 1080p60 (H.265) 11x 1080p30 (H.265)	1x 8K30 (H.265)、2x 4K60 (H.265) 4x 4K30 (H.265)、9x 1080p60 (H.265) 18x 1080p30 (H.265)	1x 8K30 (H.265)、2x 4K60 (H.265) 4x 4K30 (H.265)、9x 1080p60 (H.265) 18x 1080p30 (H.265)
Display	1x Type-C (Output HDMI through the hub.)			
USB	1x PSDK、1x Nano SIM、1x OSDK			
Temperature	-25°C ~ +65°C			
Dimensions	96mmx74mmx47.3mm			
Power	DC +12V~+24V			
Weight	235g			

Interfaces

