

9F1E1 Edge AI Box



Key Feature

- Jetson™ AGX Xavier: 32 TOPS, 64/32GB LPDDR4X, 32GB eMMC
- Display: 1 × HDMI
- Rich I/O: 1 × RJ45, 3 × USB Type-A, 1 × Micro USB
- Expansion: Built-in 2 × full-size miniPCle, 1 × M.2 M 2280
- Operating Temperature: -25°C ~ +65°C
- Input Voltage: DC 12V
- Pre-installed Ubuntu

Introduction

The 9F1E1 is a rugged edge AI computing device powered by NVIDIA® Jetson™ AGX Xavier, delivering 32 TOPS AI performance for parallel multi-sensor processing. It provides a reliable local computing foundation for industrial vision inspection, mobile robot control, smart warehouse and V2X perception.

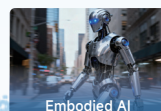
With triple protection (ESD, over-voltage, reverse polarity) and wide-temperature components, it ensures stable operation in harsh environments. Rich I/O and expansion slots support Gigabit Ethernet, storage, 4G/5G/Wi-Fi and I/O cards.



Website



Industrial visual quality inspection



Embodied AI



Intelligent Warehouse Management



Lane Coordination

Specifications

| Module | Jetson AGX Xavier 32GB | Jetson AGX Xavier Industrial |
|----------------|--|---|
| AI Performance | 32 TOPS | 30 TOPS |
| GPU | 512-core NVIDIA Volta architecture GPU with 64 Tensor Cores | |
| CPU | 8-core NVIDIA Carmel ARM®v8.2 64-bit CPU 8MB L2 + 4MB L3 | |
| Memory | 32GB 256-bit LPDDR4x 136.5GB/s | 32GB 256-bit LPDDR4x (Supports ECC) 136.5GB/s |
| Storage | 32GB eMMC 5.1 | 64GB eMMC 5.1 |
| Video Encode | 4x 4K60 (H.265)、8x 4K30 (H.265) 16x 1080p60 (H.265)、32x 1080p30 (H.265) | 2x 4K60 (H.265)、6x 4K30 (H.265) 12x 1080p60 (H.265)、24x 1080p30 (H.265) |
| Video Decode | 2x 8K30 (H.265)、6x 4K60 (H.265) 12x 4K30 (H.265)、26x 1080p60 (H.265) 52x 1080p30 (H.265) | 2x 8K30 (H.265)、4x 4K60 (H.265) 8x 4K30 (H.265)、18x 1080p60 (H.265) 36x 1080p30 (H.265) |
| Display | 1x HDMI2.0 | |
| USB | 3x USB 2.0 Type-A、1x USB Type-C (OTG)、Micro USB(Debug) | |
| Networking | 1x RJ45 | |
| Button | 1 x Recovery、1 x Reset、1x PWR | |
| Expansion | 2x Overall Length mini PCIe、1x M.2 Key M(2280) | |
| Temperature | -25°C ~ +65°C | -40°C ~ +65°C |
| Dimensions | 166.7mm x 135mm x 74.5mm | |
| Power | DC +12V | |
| Weight | 1061g | |

Interfaces

