

AS-166

EstiNet EdgeAI miniServer

AS-166 is an innovative AI inference system, which adopts the ARM based system, integrates NVIDIA Jetson NANO System-on-Module processor and supports 128 CUDA cores.

AS-166 is equipped with 16 gigabit RJ45 ports. 8 ports are PoE ports, each one can provide up to 30-Watt power; the other 8 ports are non-PoE Giga ports, work as the normal downlink and uplink ports.

AS-166 also provides the RS485 and DI/DO interfaces. By co-working with the IoT devices, AS-166 can gather the statistics and control the related IoT devices management system.

AS-166 can not only automatically do zero touch setting via QR-code scan system but also support IP camera feed processing with the equipped GPU hardware.

Key Features and Benefits

Support AI Frameworks

AS-166 adopts NVIDIA Jetson Nano built in Maxwell GPU architecture with 128 NVIDIA CUDA cores. AS-166 supports AI frameworks such as TensorFlow, Tensor RT and Darknet. It's useful in smart city AIoT systems and smart manufacturing systems.

IoT Control

AS-166 provides the RS485, Digital Input and Digital Output interfaces. By connecting to IoT devices through the above interfaces, AS-166 can work as an IoT gateway. Thus, it can connect to many IoT devices with RS485 interface; achieve the PLC control through the Digital Input and Digital Output interfaces.

Switch Features

AS-166 is equipped with 8 Giga-PoE ports and 8 Giga-non-PoE ports. It supports a variety of L2 switch features, including port Flow Control, port-based VLAN, spanning tree protocol to avoid the topology loop happening, 802.1p-based CoS and priority queueing to let time sensitive services have higher priority for transmission. AS-166 can meet application scenarios in SMB environments.

Zero Touch Configuration

By collaborating with built-in EstiNet's smart network management system and application, a network administrator can easily manage switch ports and the attached powered devices (e.g., IP CAMs) with zero touch configuration. AS-166 also provides user friendly GUI environment for network administrators do system analysis and trouble shooting.

Easy NVR Usage

AS-166 supports PoE video inputs. By connecting to IP CAMs and use the built in NVR application to manage, set the IP Camera devices and capture video streaming.

Power Saving

With built-in IEEE802.3az Energy Efficient Ethernet (EEE) feature and more innovative green features such as Link Down Power Saving, Cable Length Power Saving, "No traffic or Small traffic Power Saving automatic detection" functions, AS-166 can reduce energy consumption.

Product Specifications

System

- ◆ CPU : Quad Core ARM Cortex A57
- ◆ GPU: NVIDIA Maxwell GPU, 128 CUDA core
- ◆ Memory: 4GB 64-bit LPDDR4
- ◆ Flash: 16G
- ◆ I/O
 - HDMI/Display Port * 1
 - USB 3.0 Type A *1
 - USB 2.0 Type A * 1
 - Micro-B for Recovery * 1
 - DI * 4 / DO * 4
 - RS485 * 1
 - Reset Button * 1
 - Recovery Button * 1
- ◆ Storage
 - M.2 Key M 2280 with PCIe x4 NVMe SSD slot
- ◆ Expansion
 - Mini PCI 4G Module slot
 - SIM Card slot
 - M.2 Key M 2230 with WIFI and bluetooth
- ◆ Ethernet
 - Giga PoE ports * 8 (downlink)
 - Giga non-PoE ports * 8
- ◆ Dimension: 1U height
- ◆ Power Supply : 100-240 VAC, 50/60HZ
- ◆ Operating Temperature : 0°Cto 40°C
- ◆ Operating Humidity : 10% to 90%
- ◆ Fan-less Design

Video Processing

- ◆ Support IPCAM and webcam
- ◆ Support Video Input Processing
- ◆ NVR support

Switch Function support

- ◆ Port-based VLAN
- ◆ Spanning Tree Protocol
- ◆ 802.1p-based CoS
- ◆ Priority Queueing

PoE

- ◆ IEEE 802.3af/at (PoE+)
- ◆ 8 Giga-ports PoE
- ◆ Provide up to 30W for connecting device
- ◆ Total PoE Budget 120W

Power Saving

- ◆ 802.3az
- ◆ Cable Length Detection
- ◆ No Link Power Saving

AI framework support

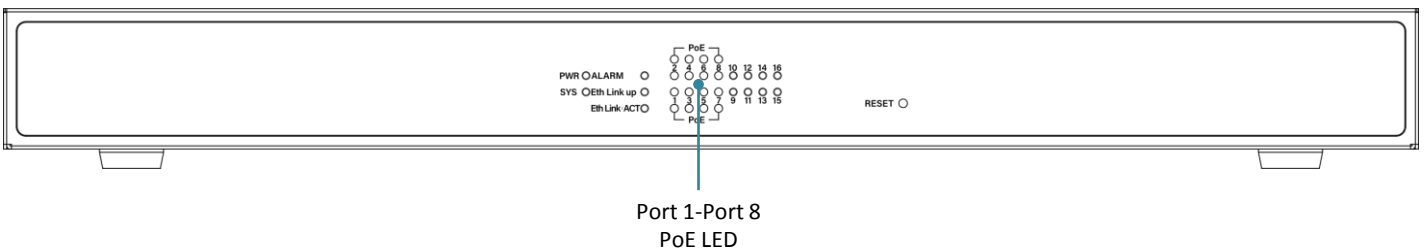
- ◆ TensorFlow
- ◆ Darknet
- ◆ TensorRT

Ordering Information

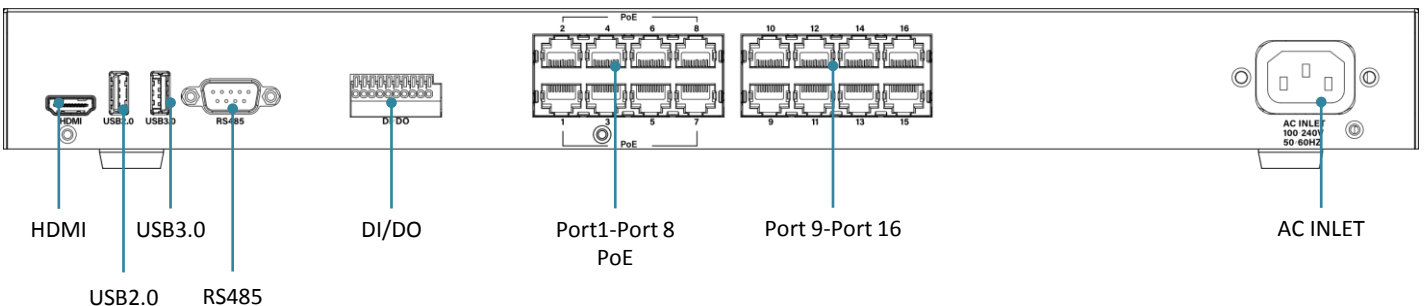
Product Name	Q'ty(pcs)
AS-166	< 5

- ◆ For pricing ,delivery and more information, please contact us: AIgoal_sales@estinet.com

Front side



Rear side



AS-166

EstiNet EdgeAI miniServer

AS-166是一個以AI技術所開發的創新介面系統，它採用以ARM為基礎的系統，整合NVIDIA Jetson NANO系統模組，並支援128個CUDA核心。

AS-166配備16個10/100/1000BASE-T RJ45埠。其中8個埠是PoE端口，每個埠可提供高達30W的電源；另外8個埠為非PoE Giga端口，提供downlink和uplink功能。

AS-166也提供RS485和Digital Input / Digital Output 介面。藉由和IoT設備連接，AS-166可以收集、統計數據和控制IoT相關設備管理系統。

AS-166不僅可以透過QR code掃描系統，自動進行零接觸設定，同時還支援PoE影像輸入，易於處理圖像和管理影像設備。

產品特色

支援AI框架

AS-166採用內建NVIDIA Jetson Nano Maxwell CPU架構，具有128個NVIDIA CUDA核心。同時，AS-166也支援AI框架，例如TensorFlow、Tensor RT和Darknet，以利開發人員可以輕鬆建置智慧城市和智慧製造的相關應用。

物聯網(IoT)控制

AS-166 提供 RS485, Digital Input和Digital Output 介面。透過上述介面經由RS485連接到物聯網設備，AS-166即可當作物聯網閘道器。另外，AS-166藉由Digital Input和Digital Output介面，也可達到PLC控制功能。

交換機功能

AS-166配備8個Giga-PoE埠和8個Giga-nonPoE埠。它支援各種L2交換機功能，包括port Flow Control，port-based VLAN，和避免發生拓撲迴圈的Spanning Tree協議，並且根據以802.1p CoS流量優先等級的協定，針對時間敏感的連接設備具有高優先權的傳輸服務。AS-166可以符合SMB環境應用。

零接觸設定

透過與內建的EstiNet網絡管理系統和應用程式協作，網絡管理員可以經由零接觸設定方式，簡單管理交換機埠和所連接的受電設備（例如IP CAM）。此外，AS-166為網絡管理員提供用戶友善的GUI環境，以利其進行系統分析和故障排除。

簡單使用 NVR

AS-166支援多路PoE影像輸入。經由連接IP CAM使用內建的NVR應用程式來管理系統，可進一步設定IP攝像機和擷取影像串流。

省電模式

內建IEEE802.3az高效能乙太網路和其他創新技術的綠色節能模式（如鍊路斷開節能、電纜長度節能、無流量或小流量節能自動偵測功能），AS-166可以有效降低系統耗能。

產品規格

系統

- ◆ CPU : Quad Core ARM Cortex A57
- ◆ GPU: NVIDIA Maxwell GPU, 128 CUDA core
- ◆ Memory: 4GB 64-bit LPDDR4
- ◆ Flash: 16G
- ◆ I/O
 - HDMI/Display Port * 1
 - USB 3.0 Type A *1
 - USB 2.0 Type A * 1
 - Micro-B for Recovery * 1
 - DI * 4 / DO * 4
 - RS485 * 1
 - Reset Button * 1
 - Recovery Button * 1
- ◆ 儲存空間
 - M.2 Key M 2280 with PCIe x4 NVMe SSD slot
- ◆ 擴充孔位
 - Mini PCI 4G Module slot
 - SIM Card slot
 - M.2 Key M 2230 with WIFI and bluetooth
- ◆ 乙太網路
 - Giga PoE ports * 8 (downlink)
 - Giga non-PoE ports * 8
- ◆ 尺寸: 1U height
- ◆ 電源供應 : 100-240 VAC, 50/60HZ
- ◆ 工作溫度 : 0°Cto 40°C
- ◆ 工作濕度 : 10% to 90%
- ◆ 無風扇設計

支援AI 框架

- ◆ TensorFlow
- ◆ Darknet
- ◆ TensorRT

影像處理

- ◆ 支援 IPCAM 與 webcam
- ◆ 支援 多路 影像輸入
- ◆ 支援 NVR 功能

支援交換機功能

- ◆ Port-based VLAN
- ◆ Spanning Tree Protocol
- ◆ 802.1p-based CoS
- ◆ Priority Queueing

PoE

- ◆ IEEE 802.3af/at (PoE+)
- ◆ 8 Giga-ports PoE
- ◆ 可提供連接設備超過30W電源
- ◆ 總PoE功率預算可達120W

省電模式

- ◆ 802.3az
- ◆ Cable Length Detection
- ◆ No Link Power Saving

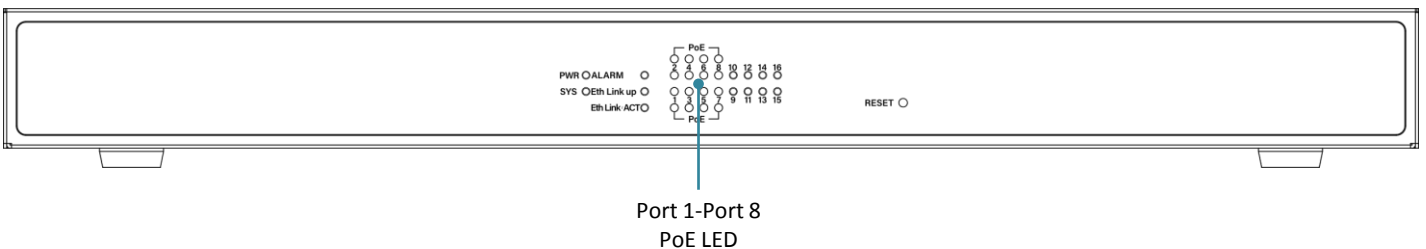
訂購資訊

產品名稱	數量(台)
AS-166	< 5

- ◆ 產品價格、運送方式或其他相關問題請與我們連繫:

AIgoal_sales@estinet.com

正面圖



背面圖

