**756-基于AGX Xavier GPU的 8路GMSL视频计算卡**

**一、板卡概述**

AGX Xavier GMSL 载板，是一款带有8×GMSL视频输入接口的嵌入式人工智能计算产品，能够为众多终端设备赋予人工智能计算力，从而有效降低人工智能产品的落地门槛。Xavier能够提供高达32Tops计算能力，能够很好的满足低速无人驾驶，工业机器视觉等场景的图像、激光点云等计算需求。同时提供Cadence格式的原理图，PCB图，GMSL SerDes 芯片MAX9286和MAX96705的驱动程序及其图像采集显示程序的源代码，不仅为终端用户的产品开发及其产品上市节约时间，并且能为用户提供稳定可靠经过验证的软硬件技术保证。



**二、技术参数**





**2.1 接口 I/O 说明**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Interface | Quantity | Note |
| Network | Ethernet | 2×RJ45 Gigabit Ethernet Network port |  |
| Camera | Camera | 8× GMSL FAKRA Z TYPE | Transmission distance up to 15 meters |
| Video output | Video out | 1×GMSL FAKRA Z TYPE |  |
| HDMI | 1×HDMI 2.0 TYPE A |  |
| USB | USB | 2×USB 3.1 TYPE A1×Micro USB | USB 5V, 1AMicro USB 5V, 0.5A |
| I/O | GPIO | 10 x GPIO | In 0-3.3V, Out 3.3V |
| CAN | 2 | With CAN chipTerminal resistor 120Ω |
| UART | 5x RS232 |  |
| SPI | 1 | 3.3V |
| I2C | 1 | 3.3V |
| I2S | 1 | 3.3V |
| User Expansion | TF | 1xTF Slot | MicroSD card supported |
| M.2 | 1×M.2 M Key1×M.2 B Key | 2280 SIZE NVME SSD 4G LTE |
| Function Key | Power KEY | 1 | Button |
| Reset KEY | 1 | Button |
| Recovery KEY | 1 | Button |

**2.2 性能参数**

| **Power Supply** | **Spec** |
| --- | --- |
| Input Type | DC |
| Input Voltage | Wide input 12-30V DC |
| Typical consumption | 30W |
| Mechanical | Spec |
| Dimensions (W×D) | 180mm × 140mm |
| Environmental | Spec |
| Operating Temperature | -20℃-70℃, 0.2~0.3m/s air flow5 |
| Storage Temperature | -25℃-80℃ |
| Storage Humidity | 10%-90% non-condensing |

**三、产品清单**

* SHENDU AGX Xavier GMSL 载板 x1
* 快速上手指南×1
* 合格证×1
* 保修卡×1
* 散热器（选配）