LI-AX-BOX-GMSL2

Address:
48820 Kato Road
Suite 100B
Fremont, CA 94538
USA

Phone:
+1 (408)263-0988
Fax:
+1 (408)217-1960

Sales:
sales@leopardimaging.com
Support:
support@leopardimaging.com
INTRODUCTION

The LI-AX-BOX-GMSL2 includes NVIDIA Jetson AGX Xavier SOM, Xavier AGX carrier board, De-Serializer adapter board with Maxim GMSL2 MAX96712 and passive cooling aluminum case. This product supports up to 8 GMSL2 cameras which are equipped with Maxim GMSL2 MAX9295A/B/D, MAX96717G/F serializers.

KEY FEATURES

- NVIDIA Jetson AGX Xavier SOM: included
- CPU: NVIDIA Carmel ARMv8.2 (4 x dual-core ) @ (8MB L2 + 4MB L3) (up to 2.26GHz operating frequency per core)
- GPU: 512-core Volta @ 64 Tensor Cores (up to 1.37GHz operating frequency per core)
- NVIDIA Deep Learning Accelerator: included
- Memory: 32GB 256-bit wide LPDDR4x @ 2133MHz (max bus frequency) | 136.5GB/s (max bandwidth)
- Storage
  32GB internal eMMC 5.1
  1 M.2 PCIe interface
  1 Micro SD card interface
- Multi-Stream HD Video & JPEG
  Video Encode: H.265 (HEVC), H.264, VP9
  Video Decode: H.265 (HEVC), H.264, VP9, VP8, MPEG-4, MPEG-2, VC-1
  JPEG (Decode & Encode)
- Wireless: 1 M.2 PCIe interface
- Ethernet: 10/100/1000 BASE-T Ethernet
- Camera: two 4T1 Fakra connectors for 8 cameras maximally
  4T1 mating connector: 2298721-9
- Connector: FAKRA Z TYPE
- DeSerializer: Maxim MAX96712
- Single Coax Cable transmits up to 12 meters PoC (Power over Cable)
- Input power supply range: TBD
- Operating Temperature: TBD
- Weight: ~ 1290 g
- Dimensions: 132.0 (L) x 127.6 (W) x 84.5 (H) mm
- Part#: LI-AX-BOX-GMSL2

INTERFACES

- 2 x 4T1 Fakra connectors for camera connection (support up to eight cameras)
- 1 x Micro HDMI connector
- 1 x USB 3.0 Type-C interface
- 1 x USB 2.0 Micro-B interface (UART)
- 1 x Micro SD card interface
- 1 x Power socket (DC 19V)
- 2 x USB3.0 Type-A interfaces (stacked)
- 2 x RJ45 Gigabit Ethernet interfaces (stacked)
- 2 x M.2 PCIe interfaces (one for wireless, one for SSD)
- REC, RST and PWR buttons included
### BOM

<table>
<thead>
<tr>
<th>#</th>
<th>Items</th>
<th>QTY</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LI-AX-BOX-GMSL2</td>
<td>1</td>
<td>Piece</td>
</tr>
</tbody>
</table>
| 2  | 19 VDC power supply: 1 x 19V power adapter + 1 x cable adapter  
**NOTE:** The cable adapter is for testing only | 1   | Set  |
<table>
<thead>
<tr>
<th>Revision</th>
<th>Description</th>
<th>Release Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>Initial draft.</td>
<td>28 Oct 2022</td>
</tr>
<tr>
<td>0.2</td>
<td>Updated power description in BOM.</td>
<td>11 Nov 2022</td>
</tr>
</tbody>
</table>