

# VPX-SF

Intel® 6代 i7 4核 VPX 6U 计算板，支持 8路 SRIO，板载 Xilinx K7-325T FPGA



## 主要技术指标要求

- **VPX 6U架构**  
233.5mm x 160mm 尺寸
- **处理器**  
6th Generation Intel® Core™ processor (formerly “Skylake-H”)  
Intel® Core™ i7-6820EQ 2.8/3.5GHz (Turbo), 45W/35W(cTDP) (4C/GT2)
- **芯片组**  
Mobile Intel® QM170芯片组
- **内存**  
双通道2133MHz DDR4板贴内存，最大可支持到16GB  
Channel A 8GB, Channel B 8GB
- **SRIO**  
8路SRIO X4 to P1/P2/P3 (4路SRIO x4 from TSI721，通过SRIO Switch CPS1848扩展为8路)
- **存储**  
2路M.2，支持 PCIE X2 or X4 SSD
- **网络：2路Intel i210IT 网络芯片**  
1x 1000BASE-T Ethernet to 前面板；  
1x 1000BASE-T Ethernet to 后IO P4
- **PCI Express总线**  
2x PCIe Gen3 x4 to TSI721 for SRIO Design  
1x PCIe Gen3 x8 to P2  
1x PCIe Gen3 x4 to FPGA  
1x PCIe Gen3 x4 to P2  
1x PCIe Gen3 x2 to M.2 Connector
- **图形显示**  
1路HDMI to Front Panel
- **AUDIO**  
ALC662 Audio Codec  
1路HP-Out to Front Panel
- **USB**  
3x USB 3.0 Port on Front Panel
- **差分信号**  
3路MLVDS (FPGA输出422信号通过转换芯片转为mLVDS信号输出至P0)  
多路LVDS差分对信号  
多路普通DP差分对信号

- **Front panel IO**  
3x USB 3.0 connector  
1x GbE RJ45 Connector With LED  
1x HDMI Connector  
1x Line-Out Audio Jack  
1x JTAG  
1x SATA LED  
1x Power Status LED  
1x Reset Button

## 接口要求

### 接口种类

- 前面板：
- 3 x USB 3.0 connector
  - 1x GbE RJ45 Connector With LED
  - 1x HDMI Connector
  - 1x Line-Out Audio Jack
  - 1x JTAG
  - 1x SATA LED
  - 1x Power Status LED
  - 1x Reset Button

