

# Mustang-F100-A10

NEW



## Feature

- Half-Height, Half-Length, Double-slot.
- Power-efficiency, low-latency.
- Supported OpenVINO™ toolkit, AI edge computing ready device.
- FPGAs can be optimized for different deep learning tasks.
- Intel® FPGAs supports multiple float-points and inference workloads.



ubuntu

## Specifications

Model Name	Mustang-F100-A10
Main FPGA	Intel® Arria® 10 GX1150 FPGA
Operating Systems	Ubuntu 16.04.3 LTS 64-bit, CentOS 7.4 64-bit (Windows® & more OS are coming soon)
Voltage Regulator and Power Supply	Intel® Enpirion® Power Solutions
Memory	8G on board DDR4
Dataplane Interface	PCI Express x8 Compliant with PCI Express Specification V3.0
Power Consumption	<60W
Operating Temperature	5°C~60°C (ambient temperature)
Cooling	Active fan
Dimensions	Standard Half-Height, Half-Length, Double-slot
Operating Humidity	5% ~ 90%
Power Connector	*Preserved PCIe 6-pin 12V external power
Dip Switch/LED indicator	Identify card number
Support Topology	AlexNet, GoogleNet V1/V2/V4, Yolo Tiny V1/V2, Yolo V2/V3, SSD300,SSD512, ResNet-18/50/101/152, DenseNet121/161/169/201, SqueezeNet 1.0/1.1, VGG16/19, MobileNet-SSD, Inception-ResNet-v2, Inception-V1/V2/V3/V4, SSD-MobileNet-V2-coco, MobileNet-V1-0.25-128, MobileNet-V1-0.50-160, MobileNet-V1-1.0-224, MobileNet-V1/V2, Faster-RCNN

\*Standard PCIe slot provides 75W power, this feature is preserved for user in case of different system configuration.

## Ordering Information

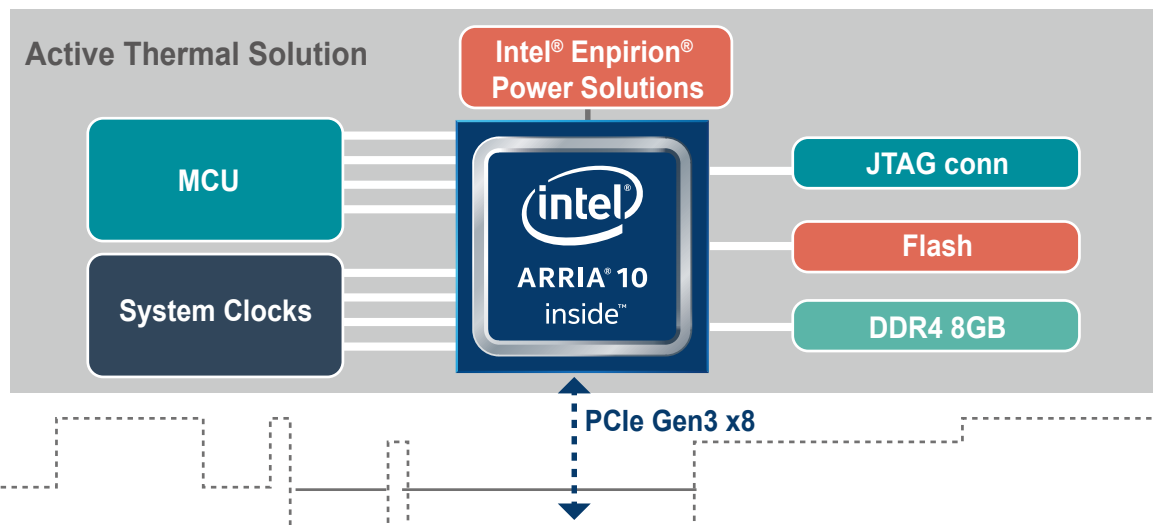
Part No.	Description
Mustang-F100-A10-R10	PCIe FPGA Highest Performance Accelerator Card with Arria 10 1150GX support DDR4 2400Hz 8GB, PCIe Gen3 x8 interface
7Z000-00FPGA00	7Z0-OTHERS PERIPHERAL DEVICE;FPGA Download Cable; IEI USB DOWNLOAD CABLE;GALAXY;USB Download+USB CABLE+IDE CABLE+FPGA CABLE

\*It's Mandatory to use this FPGA programmer kit (7Z000-00FPGA00)to upgrade the FPGA bitstreams between different Intel® OpenVINO™ toolkit versions

## Packing List

- 1 X Full height bracket
- 1 x External power cable
- 1 x QIG

## Scalable FPGA Deep Learning Acceleration Add-in Card



### Mustang-F100-A10 Block Diagram

- Intel® Arria® 10 1150 GX FPGAs delivering up to 1.5 TFLOPs
- Interface: PCIe Gen3 x 8
- Form Factor: Standard Half-Height, Half-Length, Double-slot
- Cooling: Active fan.
- Operation Temperature : 5°C~60°C(ambient temperature)
- Operation Humidity : 5% to 90% relative humidity
- Power Consumption: < 60W
- Power Connector: \*Preserved PCIe 6-pin 12V external power
- DIP Switch/LED Indicator: Identify card number.
- Voltage Regulator and Power Supply: Intel® Enpirion® Power Solutions

\*Standard PCIe slot provides 75W power, this feature is preserved for user in case of different system configuration.

### Mustang-F100-A10 Dimensions (Unit: mm)

