



XILINX
ALVEO™

Product Selection Guide
Data Center Accelerator Cards



Breathe New Life
into Your Data Center

Alveo Data Center Accelerator Cards

	Product Name	Alveo U200	Alveo U250	Alveo U280
Dimensions	Width	Dual Slot	Dual Slot	Dual Slot
	Form Factor, Passive Form Factor, Active	Full Height, ¾ Length Full Height, Full Length	Full Height, ¾ Length Full Height, Full Length	Full Height, ¾ Length Full Height, Full Length
	Weight (Passive/Active)	1,066g/1,122g	1,066g/1,122g	1,000g/1,144g
DRAM Memory	DDR Format	4x 16GB 72b DIMM DDR4	4x 16GB 72b DIMM DDR4	2x 16GB 72b DIMM DDR4
	DDR Total Capacity	64GB	64GB	32GB
	DDR Max Data Rate	2400MT/s	2400MT/s	2400MT/s
	DDR Total Bandwidth	77GB/s	77GB/s	38GB/s
	HBM2 Total Capacity	–	–	8GB
	HBM2 Total Bandwidth	–	–	460GB/s
Internal SRAM	Total Capacity	35MB	54MB	41MB
	Total Bandwidth	31TB/s	38TB/s	30TB/s
Interfaces	PCI Express®	Gen3 x16	Gen3 x16	Gen4 x8 w/ CCIX
	Network Interface	2x QSFP28	2x QSFP28	2x QSFP28
Power and Thermal	Thermal Cooling	Passive, Active	Passive, Active	Passive, Active
	Typical Power	100W	110W	100W
	Maximum Power	225W	225W	225W
Logic Resources	Look-Up Tables	892K	1,341K	1,079K
	Registers	1,831K	2,749K	2,179K
	DSP Slices	5,867	11,508	8,490
Compute Performance	INT8 TOPs	18.6	33.3	24.5
	Machine Learning	Machine Learning Solution Brief		
	Acceleration Applications	Acceleration Application Solutions		

Alveo Data Center Accelerator Cards Ordering Information



A

Product Name
Alveo

U###

Card Name
U200
U250
U280

P

Cooling
P: Passive
A: Active

64G

Memory
32G: 32GB
64G: 64GB

PQ

Solution Qualification
ESx: Engineering sample, not
qualified for volume production
PQ: Fully qualified for volume
production

G

RoHS Indicator
G: RoHS 6/6

For valid ordering codes (SKUs), go to the product data sheet(s): <http://www.xilinx.com/alveo>

Go to the Alveo Data Center accelerator cards landing page for more information:
<http://www.xilinx.com/alveo>