



Lisbon P2 ACC100 OCP FEC Accelerator Card

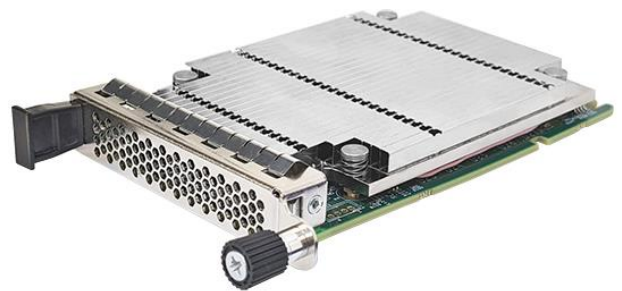
Standard temperature P2 eASIC ACC100 FEC Accelerator OCP Server Adapter Intel® Based

Product Description

Silicom's P2 eASIC ACC100 OCP FEC Accelerator server adapter is based on the Intel vRAN Dedicated Accelerator ACC100, an Intel eASIC Nextreme-3S device.

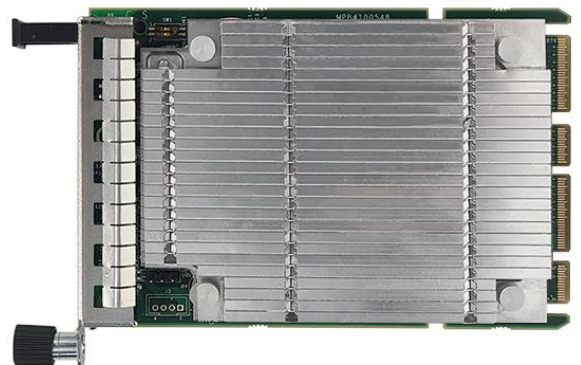
The ACC100 provides 4G (Turbo) and 5G (LDPC) encode and decode via PCIe interface.

The ACC100 is packaged in a 35mmx35mm FC1156 package with 1.0mm ball pitch.



Key Features

- Support eASIC Nextreme-3S family, 35mmx35mm package.
- Supports on board up to 16GBit DDR4 with ECC.
- PCIe Gen3, X16.
- Support PCI Express Base Specification 3.0 (8 GTs)
- Form factor option: a SFF (76 mm x 115 mm) Selection of Heat sink types optimized to application power / host server limitation



Technical Specifications

General Technical Specifications:	
Chip:	eASIC Nextreme-3S family, 35mmx35mm package with 1.0mm ball pitch
Memory:	Samsung 4GB DDR4 SDRAM 512Mx16 96FBGA. 64bit 2667Mbps DDR-4 with 8-bit ECC. Mfr. P/N K4A8G165WB-BITD
Interface Standard:	PCI-Express Base Specification Revision 3.0 (8 GTs)
Board Size:	OCP3/ SFF (76 mm x 115 mm)
Card Type:	X16 Lane
Voltage:	+12V + 8%-12% from PCIe Edge Connector. +3.3V ± 9%
Connector:	Primary Connector (4C+)
Power Consumption:	Maximum: 58.07 W (calculated) Non-Stress: 37.97W (calculated) DVT: 32.1W (ldpc_dec_HARQ_8408_3)
Sensors:	Temperature Sensors
Debug Connectors:	3-Pin Header for I2C measurements
Operating Temperature P1:	0°C – 45°C (32°F – 113°F), ambient temperature, Air flow 500LFM
Operating Temperature P2:	- 20°C to - 55°C (-4°F – 131°F), ambient temperature, Air flow 500LFM
Weight:	290 gr (10.23 oz)
Operation system support	Linux
Storage:	-40°C–65°C (-40°F–149°F)
Regulation:	Card shall meet CE, FCC Class A, ROHS requirements.
LEDs:	1x Green Color, active when all power on board are Good 1x Green Color, active when aux power is good

Order Information

P/N	Description	Notes
O3iMB-P1	O3 - PCIe-3, iMB - Intel Mount Bryce, -P1 for Passive Heat sink 1	Standard Temp
O3iMB-P2	O3 - PCIe-3, iMB - Intel Mount Bryce, -P2 for Passive Heat sink 2 (extended temperature)	E-Temp