

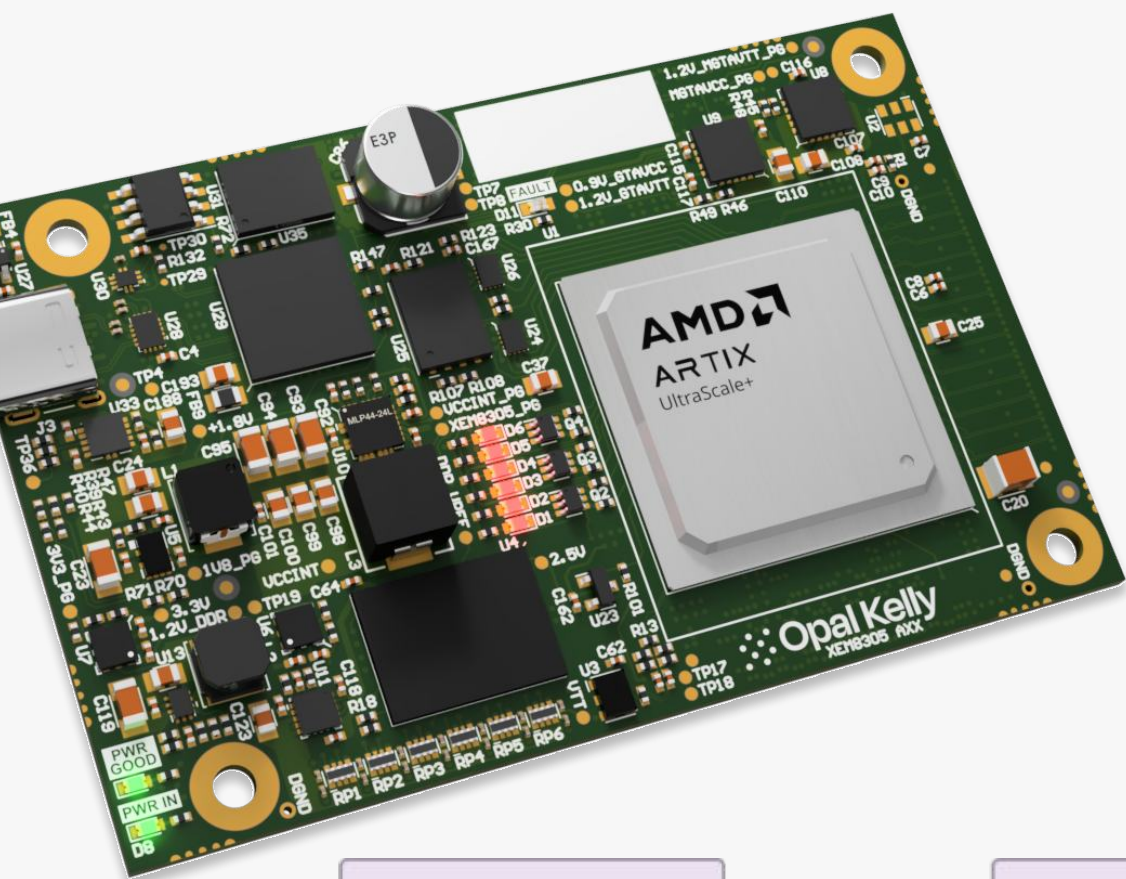
Company & Product Summary

XEM8305

FPGA Development Board and Integration Module

 **Opal Kelly**

XEM8305-AU15P

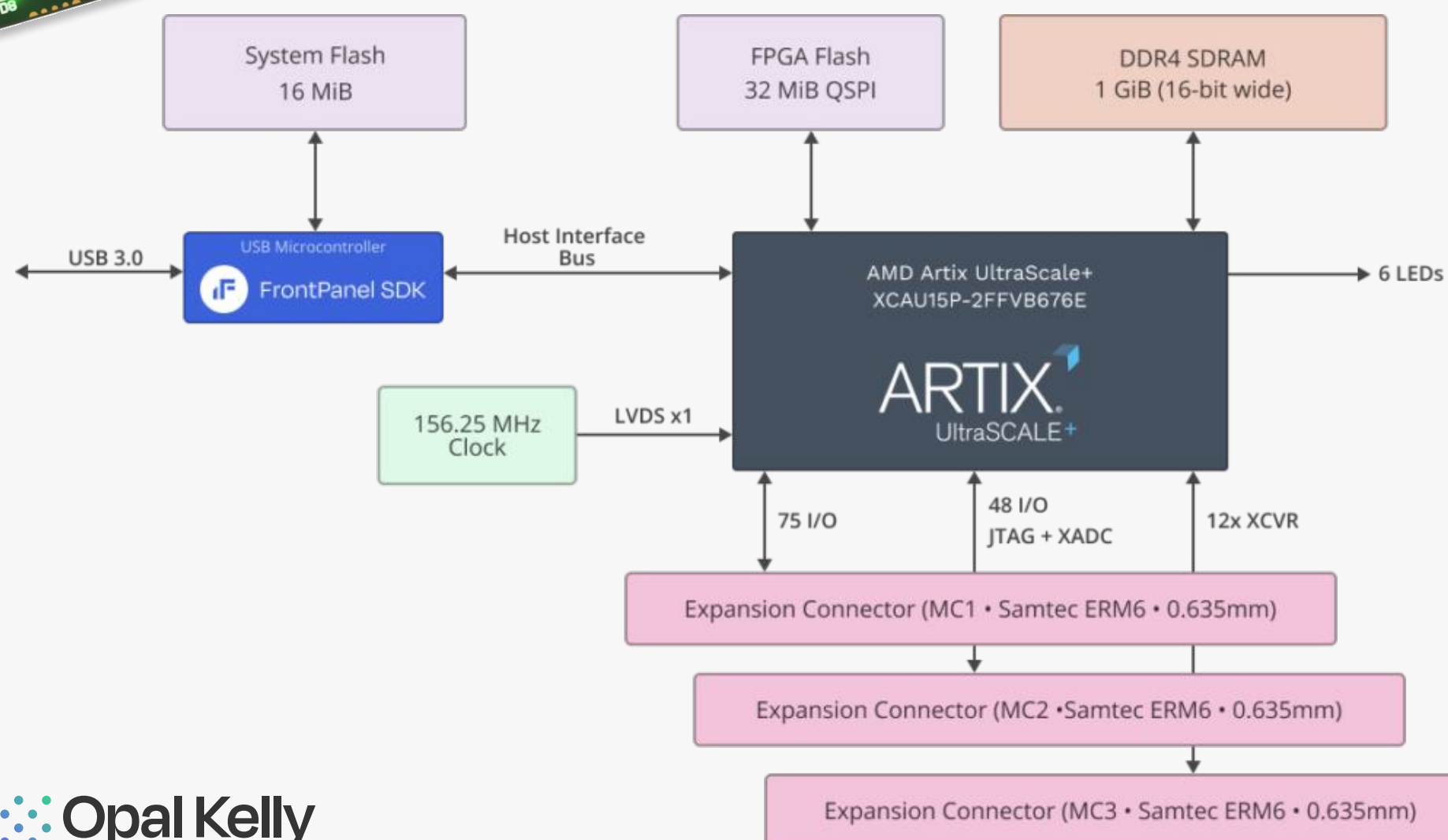


AMD Artix UltraScale+ AU15P

1 GiByte DDR4 memory
16 MiB SPI System Flash
32 MiB QSPI FPGA Flash



FrontPanel® SDK



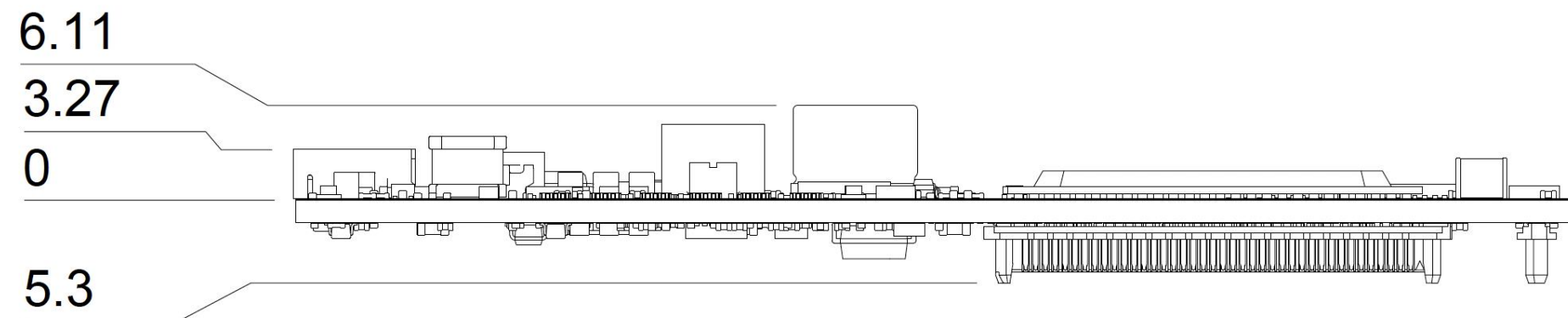
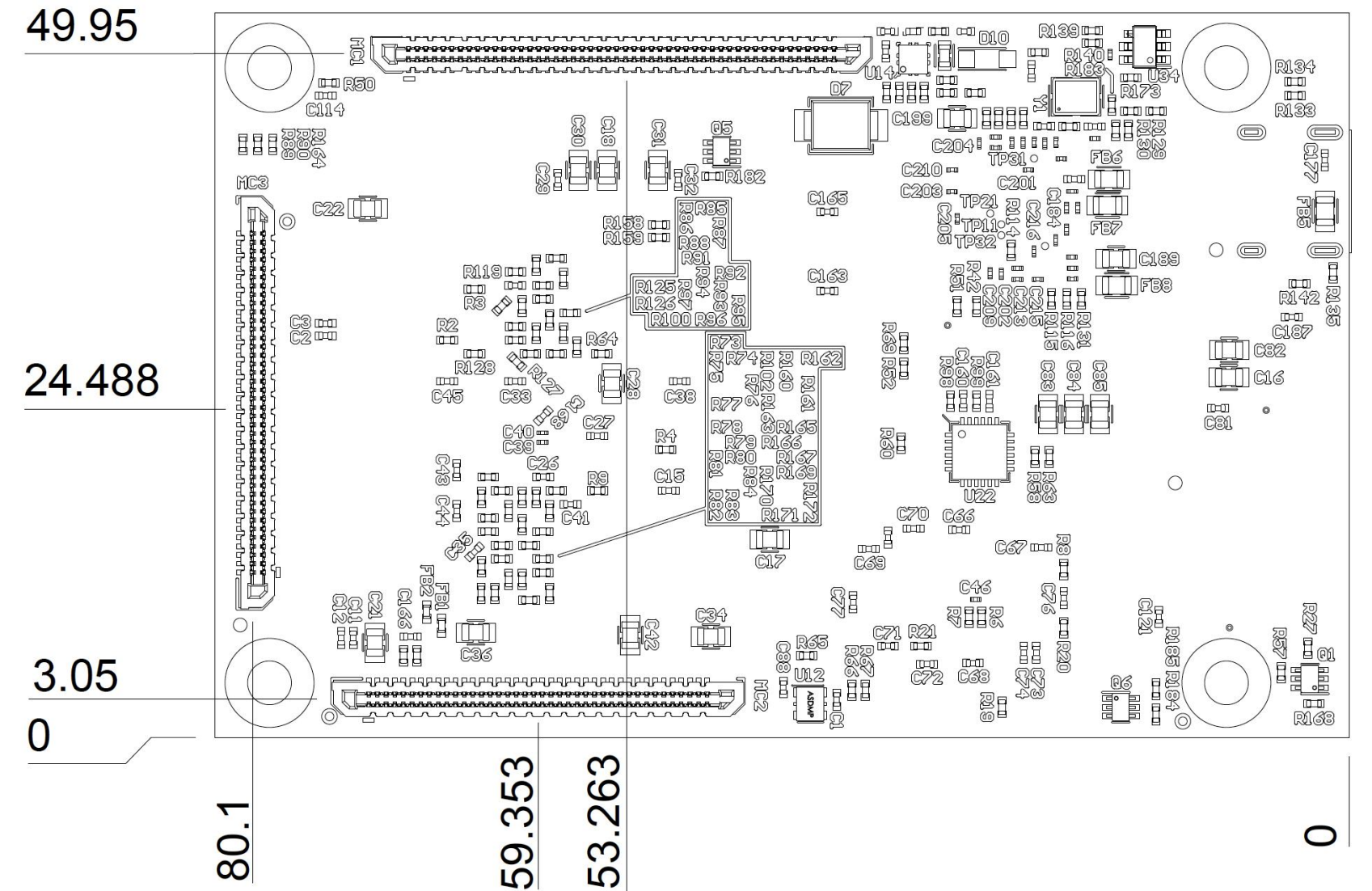
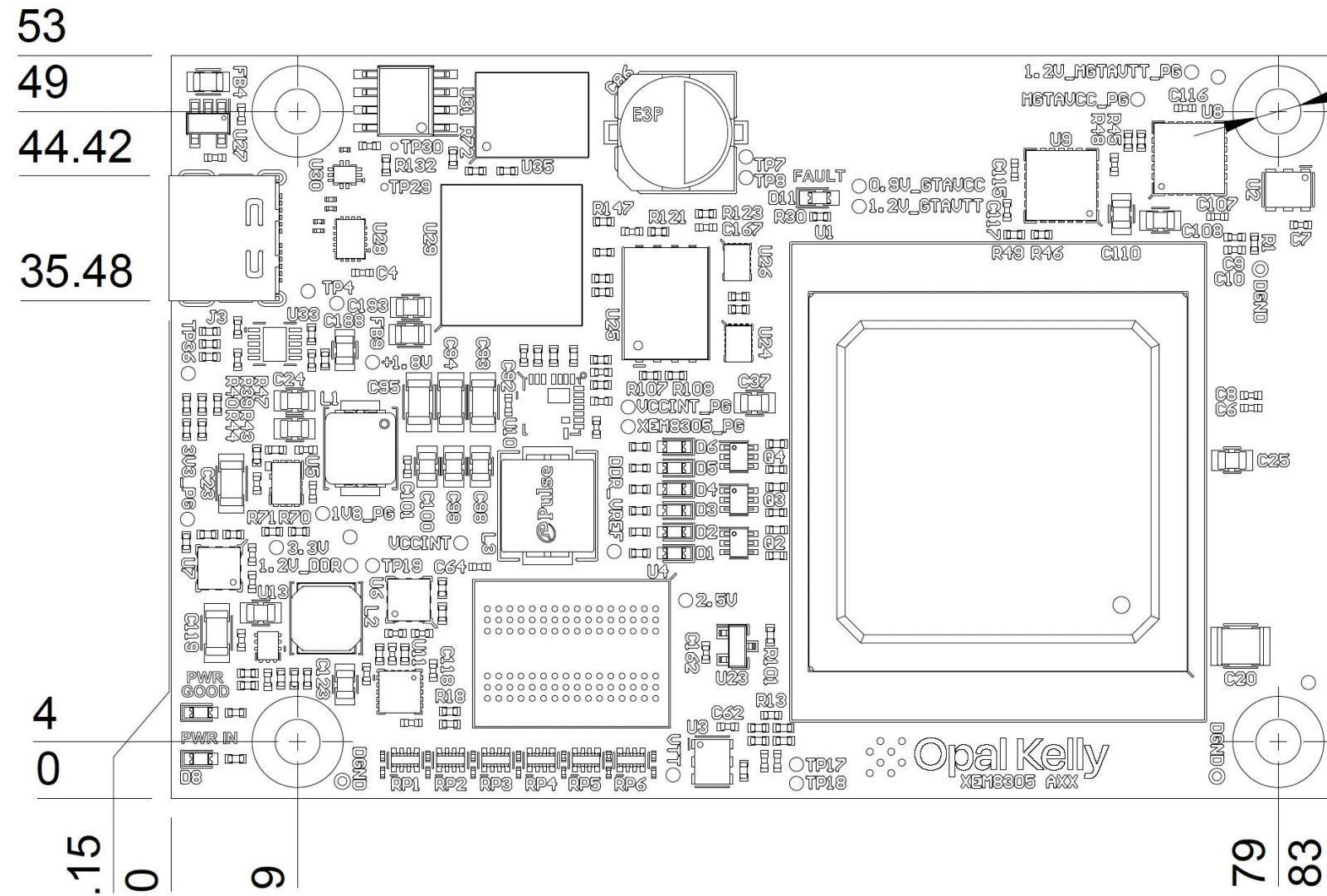
Host Interface	USB 3.0 Type C, SuperSpeed FrontPanel Support
FPGA	XCAU15P-2FFVB676E
Memory	1 GiByte DDR4, 16-bit wide data
NV Memory	16 MiB SPI System Flash 32 MiB QSPI FPGA Flash
Oscillator	156.25 MHz for FPGA fabric
FPGA I/O Voltage	Up to +3.3V

	MINIMUM	TYPICAL	MAXIMUM	UNITS
DC Input	+5.0		+15.0	VDC
DC Input Ripple	-	-	50	mVp-p
Operating Temperature	0	-	+70	°C
Storage Temperature	-50	-	+100	°C
Weight		30		grams
Clock Frequency		156.25		MHz
Clock Jitter		0.5		ps RMS

FEATURE	XEM8305-AU25P
FPGA	XCAU15P-2FFVB67
System Logic Cells	170,100
CLB Flip-Flops	155,520
CLB LUTs	77,760
Distributed RAM (max)	2.5 Mb
Block RAM (Mib)	5.1 Mb
Block RAM	144 blocks
DSP Slices	576
Clock Management Tiles	3
GTH Transceivers	12

XEM8305

Mechanical Drawings



All dimensions in millimeters (mm)