Design Services Partner Profile

AMD XILINX

BLT Company Overview

www.bltinc.com

Partner Details

Partner Tier:	Premier
Headquarters Location:	9881 Broken Land Pkwy,Columbia,MD,USA
Xilinx Alliance Partner Since:	9/1/2010

Key Contact Info

Ed McCauley
ed.mccauley@bltinc.com

Regions Served

North America Central, North America East, North America West

Supported Product Types

Yes	Design Services	No	Embedded Products
No	IP	No	EDA Tools
No	Boards		

Engineering Service Types

Yes	General Purpose Services
Yes	Services in Support of Products Sold
Yes	Services Leading to Contract Manufacturing
Maximum Service Scope:	Turnkey / full product design

Engagement Models Supported

Yes	SOW-Based Fixed Bid Projects
Yes	Time and Materials
Both	Captive Resources at Partner or Customer Premises

Xilinx Design Tool Experience

Yes	Vivado	Yes	SDSoC
Yes	HLx	Yes	SDAccel

Industry Certifications Achieved

Other / Contact Partner

Industry Certification Services Offered

Government Clearances

Top Secret/SCI, ITAR

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BLT Segment and Application Focus

Primary Focus	**Defense/Aerospace**	No Focus	Homeland Security
		No Focus	Electronic Warfare
		No Focus	ISR
		No Focus	Space
		No Focus	Missiles & Munitions
		No Focus	Military Avionics
		No Focus	Commercial Avionics
		No Focus	SatComm
		No Focus	Wireless Milcom
		No Focus	Other A&D

Secondary Focus	**Audio, Video, Broadcast**	No Focus	Encoders & Decoders
		No Focus	Monitors & Projection
		No Focus	Networking & Converters
		No Focus	Audio Systems
		No Focus	Video Processing Cards
		No Focus	Video Conferencing
		No Focus	Routers and Switches
		No Focus	Pro Cameras & Camcorders
		No Focus	Other Broadcast

No Focus	**Automotive & Transport**	No Focus	Driver Assist - Camera
		No Focus	Driver Assist Radar/LIDAR
		No Focus	Driver Info/Infotainment
		No Focus	Automated Driving
		No Focus	Other Automotive

Secondary Focus	**Consumer**	No Focus	Digital Display
		No Focus	Drones
		No Focus	Multifunction Printers
		No Focus	Other Consumer

No Focus	**Datacenter**	No Focus	Storage
		No Focus	Compute
		No Focus	Networking

Secondary Focus	**Industrial, Medical**	No Focus	Motor Control
		No Focus	Industrial Networking
		No Focus	Surveillance
		No Focus	Machine Vision
		No Focus	Medical Imaging
		No Focus	Medical / Clinical
		No Focus	Other ISM

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BLT Segment and Application Focus (continued)

Primary Focus	**Test & Measurement**	No Focus	Simulation / Emulation
		No Focus	T & M Instrumentation
		No Focus	Semiconductor Test
		No Focus	Wired Communication Test
		No Focus	Wireless Communications Test
		No Focus	Other Test & Measurement

Primary Focus	**Wired Comms & Networks**	No Focus	Access Equipment
		No Focus	Long Haul/Transport
		No Focus	Wired Mobile Backhaul
		No Focus	OTN
		No Focus	Enterprise Equipment
		No Focus	Ethernet Interlaken Connectivity
		No Focus	Packet Processing
		No Focus	Other Wired Communications

Primary Focus	**Wireless Comms & Networks**	No Focus	Baseband
		No Focus	Wireless Backhaul
		No Focus	Connectivity & Switching
		No Focus	Radio
		No Focus	Other Wireless

Design Services Partner Profile

Design Competencies

System Architecture	Primary Focus	BLT designs FPGAs, MPSoCs, ACAPs, embedded software, high-speed/high density PCBs, and complete systems.
RF and Analog Design	Secondary Focus	BLT handles up to 6 GHZ design work in-house. Above that, we engage trusted firms to meet our Clients' needs.
FPGA Design and Integration	Primary Focus	The founder of BLT helped negotiate Xilinx's original patents. BLT has been designing and pioneering the field of FPGAs from 1987 and continued to do so after spinning off from Xilinx in 1989.
FPGA Timing Closure	Primary Focus	Absolutely! FPGA/SoC cannot be reliably designed without performing Timing Closure. BLT has worked with Xilinx to develop and codify the Xilinx's UltraFast design flow.
FPGA Design Optimization	Primary Focus	Using BLT's design techniques and methodologies, our Clients' designs can fit into smaller, slower speed-grade devices thus saving thousands, often effectively paying for our services.
Signal Integrity Design and Analysis	Primary Focus	Absolutely! FPGA and MPSoC designs must take signal integrity into consideration. BLT's PCB designs also account for a multitude of SI facets. Example: 6U VPX card with FIFTY (50) 10G pairs out the rear.
Inhouse or Subcontracted: Typical Serial Speed:	Both	
PCB Design & Layout	Primary Focus	BLT designs custom PCBs for the majority of our Client engagements.
Inhouse or Subcontracted:	Both	
Industrial and Mechanical Design	Secondary Focus	BLT has mechanical engineers on staff.
Inhouse or Subcontracted:	Both	
Industry Certification and Compliance Testing	No Focus	
Inhouse or Subcontracted:		
Quality and Reliability Testing	No Focus	
Inhouse or Subcontracted:		
Contract Manufacturing	Secondary Focus	BLT partners with several CMs to provide world-class solutions. Many offer space-grade capabilities and are able to serve a variety of government requirements as well.
Inhouse or Subcontracted:	Both	
Max Quantities Supported:	10,000+	
Digital Signal Processing	Primary Focus	BLT has several (Hardware) DSP engineers on staff.
Experience:		
Embedded Processors	Primary Focus	BLT was one of the first companies IN THE WORLD to receive Zynq(R) silicon. We created XIP (Execute in Place) technology for Xilinx and, as Xilinx ATPs, CREATED the training curriculum and contents for Xilinx SoCs.
Experience:		

Embedded Porting / BSP Extension OS and RTOS Design Experience:	Primary Focus	Absolutely! SoC/MPSoC design can't "talk" to the outside world (PCB) without hardware and driver support.
Embedded Application Development	Secondary Focus	BLT can develop embedded applications; however, we generally suggest that, as experts "in their world," Clients create their high-level applications, while BLT focuses on the FPGA/SoC/firmware/driver parts of designs.
Image Sensor Fusion Homo or Heterogeneous: Sensor Types Design Experience:	Secondary Focus Both	Experience with camera and high-speed ADC/DACs. VAST experience and an early pioneer with Xilinx's RFSoC.
Computer Vision	No Focus	
Machine Learning Framework Experience: Network Model Experience:	Secondary Focus	BLT has staff that works with TensorFlow