

# Design Services Partner Profile



## bdSound Company Overview

Date : 12/19/2017

WWW.BDSOUND.COM

### Partner Details

Partner Tier: Select  
Headquarters Location: via Molino 20/a, Torrecchia Pia,, Italy  
Xilinx Alliance Partner Since: 10/12/2011

### Key Contact Info

bdSound Team  
partnership@bdsound.com

### Regions Served

**Supported Product Types**

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

**Engineering Service Types**

Yes	General Purpose Services	Preferred
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	Preferred
Yes	Time and Materials	
At my location	Captive Resources at Partner or Customer Premises	

**Xilinx Design Tool Experience**

Yes	Vivado	No	SDSoC
Yes	HLx	No	SDAccel

### Industry Certifications Achieved

**Industry Certification Services Offered** Other / Contact Partner

**Government Clearances** None

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## bdSound Segment and Application Focus

No Focus	<u>Defense/Aerospace</u>	<ul style="list-style-type: none"> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> </ul>	<ul style="list-style-type: none"> <li>Homeland Security</li> <li>Electronic Warfare</li> <li>ISR</li> <li>Space</li> <li>Missiles &amp; Munitions</li> <li>Military Avionics</li> <li>Commercial Avionics</li> <li>SatComm</li> <li>Wireless Milcom</li> <li>Other A&amp;D</li> </ul>
Primary Focus	<u>Audio, Video, Broadcast</u>	<ul style="list-style-type: none"> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>Primary Focus</li> <li>No Focus</li> <li>Primary Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>Primary Focus</li> </ul>	<ul style="list-style-type: none"> <li>Encoders &amp; Decoders</li> <li>Monitors &amp; Projection</li> <li>Networking &amp; Converters</li> <li>Audio Systems</li> <li>Video Processing Cards</li> <li>Video Conferencing</li> <li>Routers and Switches</li> <li>Pro Cameras &amp; Camcorders</li> <li>Other Broadcast</li> </ul>
Primary Focus	<u>Automotive &amp; Transport</u>	<ul style="list-style-type: none"> <li>No Focus</li> <li>No Focus</li> <li>Primary Focus</li> <li>No Focus</li> <li>No Focus</li> </ul>	<ul style="list-style-type: none"> <li>Driver Assist - Camera</li> <li>Driver Assist Radar/LIDAR</li> <li>Driver Info/Infotainment</li> <li>Automated Driving</li> <li>Other Automotive</li> </ul>
Primary Focus	<u>Consumer</u>	<ul style="list-style-type: none"> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>Primary Focus</li> </ul>	<ul style="list-style-type: none"> <li>Digital Display</li> <li>Drones</li> <li>Multifunction Printers</li> <li>Other Consumer</li> </ul>
No Focus	<u>Datacenter</u>	<ul style="list-style-type: none"> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> </ul>	<ul style="list-style-type: none"> <li>Storage</li> <li>Compute</li> <li>Networking</li> </ul>
No Focus	<u>Industrial, Medical</u>	<ul style="list-style-type: none"> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> </ul>	<ul style="list-style-type: none"> <li>Motor Control</li> <li>Industrial Networking</li> <li>Surveillance</li> <li>Machine Vision</li> <li>Medical Imaging</li> <li>Medical / Clinical</li> <li>Other ISM</li> </ul>

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## bdSound Segment and Application Focus (continued)

No Focus	<u>Test &amp; Measurement</u>	No Focus No Focus No Focus No Focus No Focus No Focus	Simulation / Emulation T & M Instrumentation Semiconductor Test Wired Communication Test Wireless Communications Test Other Test & Measurement
No Focus	<u>Wired Comms &amp; Networks</u>	No Focus No Focus No Focus No Focus No Focus No Focus No Focus	Access Equipment Long Haul/Transport Wired Mobile Backhaul OTN Enterprise Equipment Ethernet Interlaken Connectivity Packet Processing Other Wired Communications
No Focus	<u>Wireless Comms &amp; Networks</u>	No Focus No Focus No Focus No Focus No Focus	Baseband Wireless Backhaul Connectivity & Switching Radio Other Wireless

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## Design Competencies

<b>System Architecture</b>	Primary Focus	Design (HW, FW, SW)
<b>RF and Analog Design</b>	Primary Focus	Low noise audio and speech applications
<b>FPGA Design and Integration</b>	Primary Focus	Design (HW, FW, SW)
<b>FPGA Timing Closure</b>	Secondary Focus	This is a part of our design workflow
<b>FPGA Design Optimization</b>	Primary Focus	Design (HW, FW, SW)
<b>Signal Integrity Design and Analysis</b>	No Focus	
	Inhouse or Subcontracted:	
	Typical Serial Speed:	0
<b>PCB Design &amp; Layout</b>	Primary Focus	Full PCB design
	Inhouse or Subcontracted:	Inhouse
<b>Industrial and Mechanical Design</b>	No Focus	
	Inhouse or Subcontracted:	
<b>Industry Certification and Compliance Testing</b>	No Focus	
	Inhouse or Subcontracted:	
<b>Quality and Reliability Testing</b>	No Focus	
	Inhouse or Subcontracted:	
<b>Contract Manufacturing</b>	Secondary Focus	Preproduction, fast protos, production support
	Inhouse or Subcontracted:	Both
	Max Quantities Supported:	1000s
<b>Digital Signal Processing</b>	Primary Focus	Design of custom cores processing for audio signal processing. Design of mixed VHDL/Ips/Microblaze(sw)/CortexA9(sw) processing chains for audio professional and consumer applications. Strong focus on conferencing systems.
	<b>Experience:</b>	xfft, fir_compiler, mult_gen, c_addsub
<b>Embedded Processors</b>	Primary Focus	Vivado / EDK design
	<b>Experience:</b>	Zynq Cortex A9 and Microblaze
<b>Embedded Porting / BSP Extension</b>	No Focus	
	OS and RTOS Design Experience:	
<b>Embedded Application</b>	Primary Focus	C/C++ developing for BareMetal, FreeRTOS and LINUX.

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## Development

Linux Kernel Module developing for custom axi lps

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### Image Sensor Fusion

Homo or Heterogeneous:

Sensor Types Design Experience:

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### Computer Vision

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### Machine Learning

Framework Experience:

Network Model Experience:

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