

# Design Services Partner Profile



## Gigafirm Co.,LTD Company Overview

Date : 02/05/2020

<http://www.gigafirm.com/home>

### Partner Details

Partner Tier: Select  
Headquarters Location: 3-21-8,machida,,Japan  
Xilinx Alliance Partner Since: 7/15/2015

### Key Contact Info

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### Regions Served

**Supported Product Types**

Yes	Design Services	No	Embedded Products
No	IP	No	EDA Tools
Yes	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: Board level design

**Engagement Models Supported**

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

**Xilinx Design Tool Experience**

Yes	Vivado	Yes	SDSoC
No	HLx	No	SDAccel

### Industry Certifications Achieved

### Industry Certification Services Offered

**Government Clearances** e-rad member

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## Gigafirm Co.,LTD Segment and Application Focus

Primary Focus	<u>Defense/Aerospace</u>	<ul style="list-style-type: none"> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>Secondary Focus</li> <li>No Focus</li> <li>Primary Focus</li> <li>No Focus</li> <li>No Focus</li> <li>Secondary 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>Primary Focus</li> <li>Secondary 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>Primary Focus</li> <li>No Focus</li> <li>No Focus</li> <li>Primary 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>
No Focus	<u>Consumer</u>	<ul style="list-style-type: none"> <li>No Focus</li> <li>No Focus</li> <li>No Focus</li> <li>No 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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## Gigafirm Co.,LTD Segment and Application Focus (continued)

Primary Focus	<b>Test &amp; Measurement</b>	<ul style="list-style-type: none"> <li>Primary Focus</li> <li>No Focus</li> <li>Secondary Focus</li> <li>No Focus</li> <li>Primary Focus</li> <li>Secondary Focus</li> </ul>	<ul style="list-style-type: none"> <li>Simulation / Emulation</li> <li>T &amp; M Instrumentation</li> <li>Semiconductor Test</li> <li>Wired Communication Test</li> <li>Wireless Communications Test</li> <li>Other Test &amp; Measurement</li> </ul>
No Focus	<b>Wired Comms &amp; Networks</b>	<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> </ul>	<ul style="list-style-type: none"> <li>Access Equipment</li> <li>Long Haul/Transport</li> <li>Wired Mobile Backhaul</li> <li>OTN</li> <li>Enterprise Equipment</li> <li>Ethernet Interlaken Connectivity</li> <li>Packet Processing</li> <li>Other Wired Communications</li> </ul>
Primary Focus	<b>Wireless Comms &amp; Networks</b>	<ul style="list-style-type: none"> <li>Primary Focus</li> <li>Primary Focus</li> <li>No Focus</li> <li>Primary Focus</li> <li>Primary Focus</li> </ul>	<ul style="list-style-type: none"> <li>Baseband</li> <li>Wireless Backhaul</li> <li>Connectivity &amp; Switching</li> <li>Radio</li> <li>Other Wireless</li> </ul>

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## Design Competencies

<b>System Architecture</b>	Primary Focus	Base station,60GHZ mili meter wave,8K VIDEO
<b>RF and Analog Design</b>	Primary Focus	RF frontend, BASEBAND FPGA,CPRI, board, design
<b>FPGA Design and Integration</b>	Primary Focus	board,system,control
<b>FPGA Timing Closure</b>	No Focus	
<b>FPGA Design Optimization</b>	No Focus	
<b>Signal Integrity Design and Analysis</b>	Primary Focus	ADS, electromagnetic field analysis, IBIS-AMI good
	Inhouse or Subcontracted: Both	
	Typical Serial Speed: 24	
<b>PCB Design &amp; Layout</b>	Primary Focus	4-24-layer high-frequency board,RF,ADDA FPGA board power supply board.We have a CAD system.Mentor Xpedition & and Fablink. Compare ODB ++ and Gerber.
	Inhouse or Subcontracted: Inhouse	
<b>Industrial and Mechanical Design</b>	Secondary Focus	We manufacture control cases, brackets, heat sinks and fans.
	Inhouse or Subcontracted: Subcontracted	
<b>Industry Certification and Compliance Testing</b>	Secondary Focus	We are a keysight Technologies partner.
	Inhouse or Subcontracted: Subcontracted	
<b>Quality and Reliability Testing</b>	Secondary Focus	We will do with customers when there is a development request. High temperature humidity test, vibration test, noise EMI, radio wave
	Inhouse or Subcontracted: Subcontracted	
<b>Contract Manufacturing</b>	Secondary Focus	We are mass-producing contracted development products. 1000 per year.
	Inhouse or Subcontracted: Both	
	Max Quantities Supported: 1000s	
<b>Digital Signal Processing</b>	Secondary Focus	MATLAB signal generator using XILINX-FPGA and JESD 204B converter is being implemented by JESD 204B training. I plan to develop it with MPSOC in the future.
	<b>Experience:</b> MATLAB SIMLINK	
<b>Embedded Processors</b>	Secondary Focus	GIGASOC with MPSOC is available from 2020. Start MPSOC service. Implementation on XILINX uses Micorblaze and ZYNQ. NXP ARM development, Raspbeyipi and other Linux application products have been developed.
	<b>Experience:</b> MPSCO,Zynq, micorblaze,ARM ,linux,	

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<b>Embedded Porting / BSP Extension</b> OS and RTOS Design Experience:	Secondary Focus	Windows driver, ARM Linux driver, communication interface, DMA.I work as much as I need for development, but I am not the main.
<b>Embedded Application Development</b>	Secondary Focus	IOT products are being developed. Built-in RUBY
<b>Image Sensor Fusion</b>  Homo or Heterogeneous: Sensor Types Design Experience:	Secondary Focus	High speed sensor for automatic operation is made with E2V ADC / DAC. Acceleration, temperature and humidity developed as a general IOT.
<b>Computer Vision</b>	Primary Focus	We have customers developing supercomputers using FPGAs. Since it is volume customer, it is focusing.
<b>Machine Learning</b>  Framework Experience: Network Model Experience:	No Focus	I am studying as a task to instruct students. As for practical correspondence is undecided.

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