

NORTHBRIDGE TECHNOLOGY

AN INTRODUCTION TO NORTHBRIDGE TECHNOLOGY

Engineering projects today require an unprecedented diversity of experience and skill. Budget, manpower constraints, and tight schedules challenge even the most talented engineering professionals.

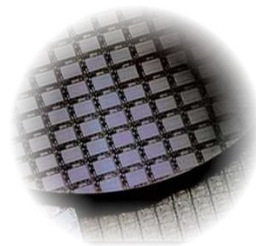
In response, NORTHBRIDGE TECHNOLOGY has assembled a team of highly skilled engineering talent with broad industry experience. Our core design group has had in excess of 1100 design engagements with over 400 customers globally.

This experience allows us to offer instant expertise in all phases of the design cycle.

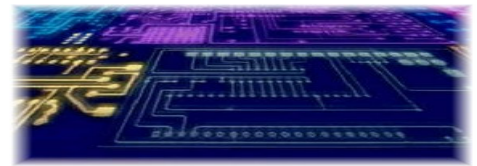
Drawing upon over 120 years plus of engineering experience, we seamlessly deliver an unparalleled product, with the highest attention to detail, all the while focused on your success.

CAPABILITIES:
NORTHBRIDGE TECHNOLOGY specializes in high speed, high complexity FPGA design and ASIC prototyping using FPGA. We also excel at FPGA/ASIC and ASSP/FPGA conversions.

Our expertise extends to turnkey systems and board level design along with firmware and software development.



Working closely with our partners, NORTHBRIDGE TECHNOLOGY offers full turnkey analog and digital ASIC design services. Additionally, we have industry leading BIST and DFT capability.



PROGRAMS:

NORTHBRIDGE TECHNOLOGY has developed a number of specialty programs.

- *REFERENCE BOARD PROGRAM:* Targeted at semiconductor companies, this program supports the entire lifecycle of the reference board. We leverage our expertise to provide a complete solution including design, manufacturing and post-sales customer support.
- *MODULE BOARD PROGRAM:* We offer unique custom SOM (System on Module) and general module solutions, including FPGA adapter boards.
- *PCI DESIGN:* All flavors, all forms. NORTHBRIDGE TECHNOLOGY is the expert at the system, board and chip level.

LOCATIONS:

NORTHBRIDGE TECHNOLOGY has three Design Centers in North America, located in Ottawa, Boston and Dallas. Each design center offers a different set of expertise, allowing us to optimize the engineering resources for your project. Yet, our proximity allows us to maintain close personal contact, giving us the ability to integrate seamlessly into your engineering environment.

Experience

Digital Signal Processing

Networking

Test

Measurement

Bus Interfaces

Bus Protocols

Digital Video

Imaging

Telecom

Automotive

Medical

Military

Datacom

Satcom

NORTHBRIDGE TECHNOLOGY

Architecture

Design Specification
Test Specification
Feasibility Studies
Design Reviews

Hardware Design

Microcontroller and
Microprocessor
General board design
PCI, PMC and PC104+ boards
Evaluation Boards
Reference Boards and Designs
Custom Modules

Software Design

Embedded device drivers
Windows applications (GUIs)
and drivers
Board and system-level
diagnostics
Board support packages (BSP)
C, C++, operating systems and
RTOS

FPGA Design

Turnkey Designs
Module Blocks
IP Integration / Modification
ASIC Prototyping
Testbench Design

ASIC Design

Turnkey Designs
Analog/Digital
BIST
DFT

Custom Development

DSP Algorithm Development
Embedded FPGA Processor
Development

NorthBridge Technology has experience with a broad range of hardware and software development tools.

FPGA Development

FPGA Synthesis
Synplicity
FPGA Simulation
Model Sim
ALDEC
FPGA Place and Route
Xilinx FPGA Tools
Altera FPGA Tools
Actel FPGA Tools
Lattice FPGA Tools

Software Development

C, C++
Various manufactures
Including Borland/Microsoft
GNU

Hardware

Schematic capture/PCB layout
Orcad
PCAD
PADS



Operating Systems

Windows, Linux



Manufacturing Services

Complete project management services from design through to both prototype and production management services.

DSP Tools

Matlab

Partners

NORTHBRIDGE TECHNOLOGY

has developed relationships with a number of partners who provide specialized engineering services. These services

include:

Standards Testing
RF Design
Packaging
Mechanical Design

Contact Us

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Digital Signal Processing, Networking, Test & Measurement, Bus Interfaces & Protocols, Digital Video Imaging, Telecom, Automotive, Medical, Military, Datacom & Satcom