happiest minds
The Mindful IT Company
Born Digital . Born Agile

Single Board Computer based on 6th Gen Intel SoC for a Rugged Embedded Solution Provider

BUSINESS REQUIREMENTS

SBC based on 6th Gen Intel processor

Small form factor, Multiple connectivity and expansion options

Rugged design, extended temperature operation

OUR SOLUTIONS

Intel Core i7 SOC with DDR4 Memory (SODIMM & Memory down)

Supports three independent displays and other standard peripheral interfaces

Expansion options include mSATA/ PCIe Mini card, PCIe slot and legacy PCI bus

TOOLS /TECHNOLOGIES

Cadence 17.2 design tool, UEFI Firmware, Windows 10, Linux

16 layer Stack-up, 200+ differential pairs, 3mil minimum trace width/ spacing

Small form factor design, Conduction cooled using custom built heat sink

BUSINESS IMPACT

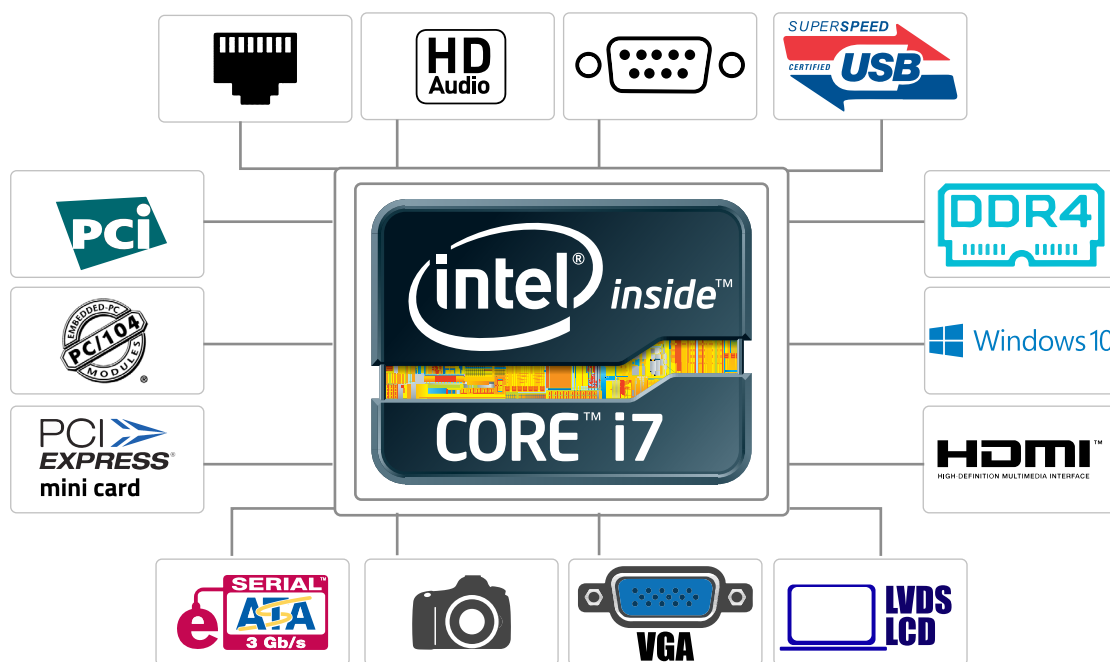Shortened development cycle to realize faster time to market

Rich feature set avoids the need for any add on cards

Superior performance and high degree of scalability gives the product an edge over competitor products

SOLUTION OVERVIEW

HD Audio

SUPERSPEED CERTIFIED USB

PCi

DDR4

EMBEDDED-PC PC/104 MODULES

Windows 10

PCI EXPRESS mini card

intel inside™ CORE™ i7

HDMI HIGH DEFINITION MULTIMEDIA INTERFACE

e SERIAL ATA 3 Gb/s

VGA

LVDS LCD