

945ITX™

MINI-ITX INDUSTRIAL MOTHERBOARD WITH 1GB BUILT-IN MEMORY

COMPACT PERFORMANCE FOR
INDUSTRIAL COMPUTING APPLICATIONS



ROHS
COMPLIANT

PRODUCT HIGHLIGHTS

- Small Form Factor (6.7" x 6.7")
- Intel® Core™ 2 Duo T7400, Intel® Core™ Duo T2500, Intel® Celeron® 530, Intel® Celeron® 440 processors
- Intel® 945GME Chipset
- 1GB of onboard DDR2 memory upgradable to 2GB
- One (1) PCI slot, One (1) Mini-PCI slot, One (1) Mini-PCI Express x1
- Seven (7) to Ten (10) Year Guaranteed Production

The 945ITX™

is a low-power Mini-ITX motherboard powered by the Intel® 945GME chipset. The 945ITX motherboard was designed for small enclosures, thin clients and deeply embedded applications such as Medical, Defense, Security and Surveillance, Point of Sale, Digital Displays, Networking, Internet Appliances, Factory Automation, Gaming and Infotainment.

APPLICATIONS

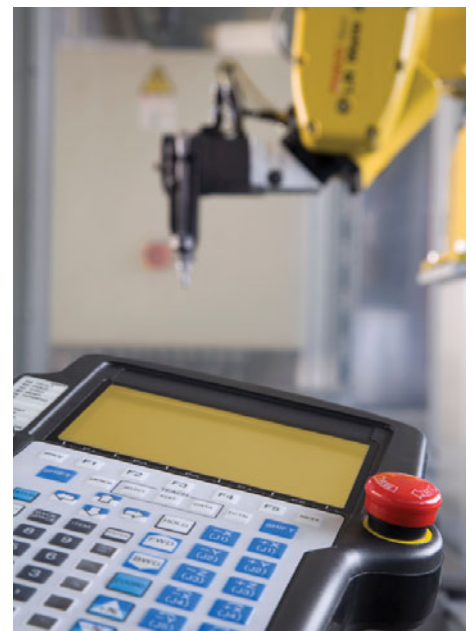
- Medical
- Defense
- Security and Surveillance
- Point of Sale
- Digital Displays
- Networking
- Internet Appliances
- Factory Automation
- Gaming
- Infotainment

The 945ITX supports low-power Intel® Core™ 2 Duo T7400, Intel® Core™ Duo T2500, and Intel® Celeron® 530, Intel® Celeron® 440 processors. These mobile processors offer a higher performance-per-watt than a standard Intel® Pentium® 4 processor, and are cooled by a low-profile heatsink and fan.

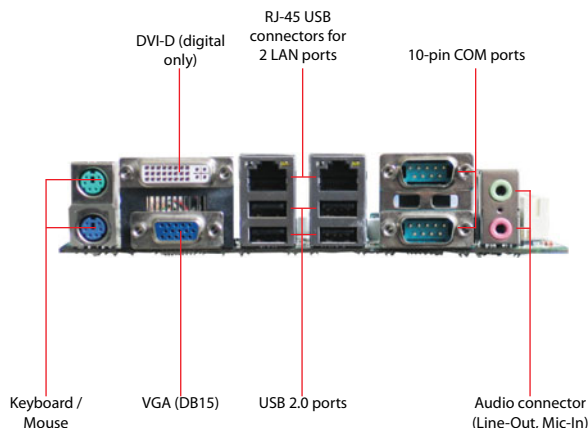
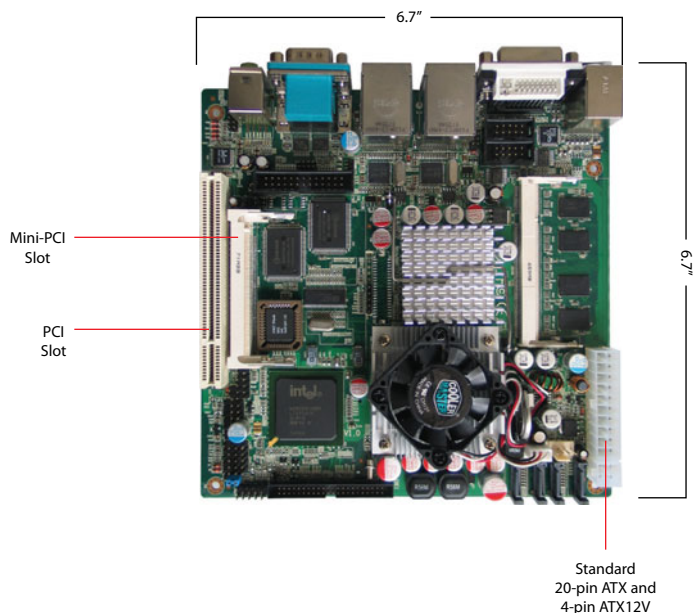
The Intel® 945GME chipset features a 667MHz front side bus, providing up to 25% faster data transfer rate compared to the previous generation. With the Intel® Graphics Media Accelerator (GMA) 950, the 945ITX offers exceptional 3D graphics performance.

OUR COMMITMENT TO QUALITY

All Corvalent products are designed and manufactured in an ISO 9001:2008 environment and backed by a seven (7) to ten (10) year production life cycle guarantee.



CORVALENT
AT THE CORE OF EMBEDDED COMPUTING



TECHNICAL SPECIFICATIONS

Form Factor Mini-ITX Form Factor

Dimensions (6.7" x 6.7")

Microprocessor Socket 478 for Intel® Core™2 Duo T7400 processor, Intel® Core™ Duo T2500 processor, Intel® Celeron® 530 processor, Intel® Celeron® 440 processor

Chipset Intel® 945GME + ICH7R

Front Side Bus 533/667MHz

Memory One (1) 200-pin SODIMM socket for unbuffered DDR2 memory
1GB of DDR2 memory onboard, 2GB max

System Bus One (1) PCI V2.3 32-bit 33MHz connector
One (1) Mini-PCI connector

Onboard I/O Four (4) SATA2 port headers (300Gbps) (supports RAID 0/1)
One (1) 44-pin IDE header (2mm)
One (1) 26-pin shared FDD / LPT header
Eight (8) total USB 2.0 connections : four (4) external ports, four (4) on headers
One (1) Audio header (Aux Line-Out, Aux Mic-in)
One (1) IR header
One (1) FP header (pinout per Intel Front Panel Design Guide Ver 1.2)
One (1) TV out header
Two (2) 10-pin COM ports (One RS232 / 422 / 485, One (1) RS232 only)
Keyboard / Mouse on rear I/O

Video Graphics One (1) DVI-D (digital only)
One (1) VGA (DB15)
Dual channel 18 bit HD LVDS connector (40-pin) / LVDS backlight connector

Ethernet Two (2) Realtek RTL8111 PCI-E GigLAN

Audio Realtek ALC883 (ALC888) AC'97 HD audio CODEC

Industrial Devices Hardware monitoring and fan control

BIOS AMI™

Battery Removable lithium battery for CMOS memory

Operating Temp 0°C to 55°C

Non-Operating -40°C to 65°C

Op. Humidity 5 to 95% @ 40°C non-condensing

Non-Operating 5 to 95% @ 40°C non-condensing

Part Number G45IX



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