MTXP-945G
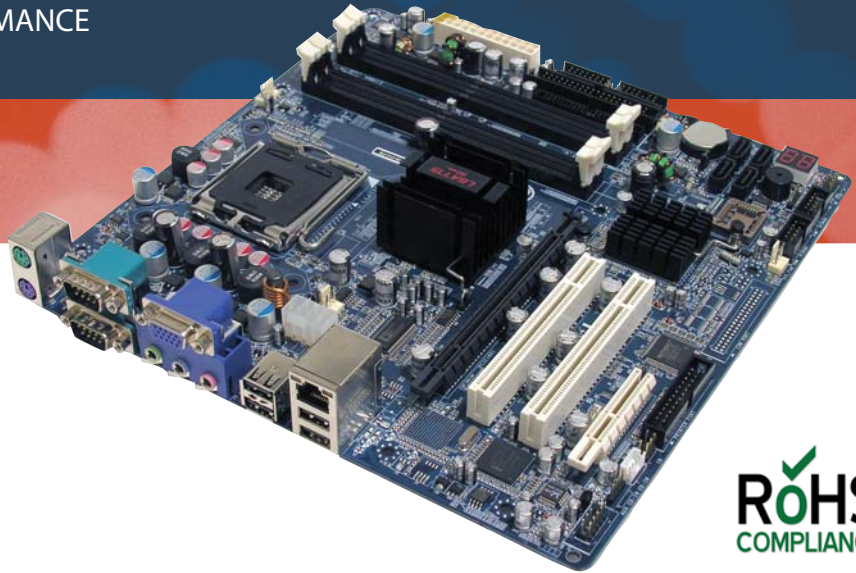
LONG-LIFE MOTHERBOARD FEATURING PCI EXPRESS

OFFERING LONG LIFE AND HIGH PERFORMANCE
SYSTEMS ENGINEERED TO PERFORM™

RoHS COMPLIANCE

PRODUCT HIGHLIGHTS

- Intel® Pentium® 4 and Celeron® D embedded processors
- Intel® Pentium® D commercial processors
- Intel® 945G Express chipset
- Dual PCIE Gigabit Ethernet options
- Up to 4GB of Dual Channel DDR2
- Quad Serial ATA II (300MB/s) RAID 0/1
- Five (5) To Eight (8) Year Guaranteed Production

The MTXP-945G™

is a long-life industrial motherboard with dual-core processor technology and PCI Express. Powered by the Intel® Pentium® 4 and Celeron® D processors and the Intel® 945G Express chipset, the MTXP-945G was designed specifically for performance intensive industrial applications such as Medical, Security, Imaging, Industrial Automation, and Manufacturing.

APPLICATIONS

- Medical
- Security
- Imaging
- Industrial Automation
- Manufacturing

The featured PCI Express x16 dedicated graphics slot supports the latest high performance graphics cards, delivering over 3.5 times traditional AGP 8X. This feature is ideal for graphic intensive embedded computing applications. The featured PCI Express x4 is capable of transferring 2 GB/s, up to 3.5 times faster than standard PCI architecture.

The MTXP-945G Express supports four (4) Serial ATA connectors (300MB/s) for high-speed hard disk drives, eight (8) USB 2.0 ports, one (1) or two (2) PCI Express-based 10/100/1000 ethernet ports Intel® High Definition Audio/AC'97 Audio and onboard Intel® Graphics Media Accelerator.

Standard features include two (2) 32-bit PCI slots for legacy devices, two (2) PATA/100 EIDE connectors, two (2) or four (4) RS232 serial ports (factory configurable to RS422), one (1) parallel port, one (1) PS/2 mouse/keyboard connector and a floppy controller.

OUR COMMITMENT TO QUALITY

All Chassis Plans Long Life products are designed and manufactured in an ISO 9001:2000 environment and backed by a five (5) to eight (8) year production life cycle guarantee.

CONFIGURED SYSTEMS

Chassis Plans is a recognized leader in turnkey integrated industrial computing solutions. Systems are built exactly to each customer's unique application and environmental requirements. Our broad product line of COTS industrial chassis and unsurpassed custom design capabilities allows us to provide the ideal enclosure. Long Life Products and strict revision control on all components means you get the same system with every order. Chassis Plans Systems are Engineered to Perform.

CHASSIS PLANS

The Original Industrial Computer Source®

MTXP-945G

LONG-LIFE MICROATX MOTHERBOARD FEATURING PCI EXPRESS

TECHNICAL SPECIFICATIONS

Form Factor MicroATX (9.6" x 9.6")

Microprocessor Embedded : Intel® Celeron® D, Intel® Pentium® 4 with Hyper-Threading Technology and Intel® Pentium® 4 processor (LGA775)
Commercial : Intel® Pentium® D processor

Chipset Intel® 945G Express + ICH7R

Front Side Bus 533/800/1000MHz

System Bus One (1) PCI Express x16
One (1) PCI Express x4 slot
Two (2) 32-bit PCI slots

On board I/O Four (4) SATA2 connectors (300MB/s) for high-speed storage devices
Intel® Matrix Storage Technology supports RAID 0/1/5/10.
One (1) 40-pin PATA/100 EIDE connecctor
One (1) 44-pin PATA/100 EIDE connector
(shared with 40-pin connector)
Eight (8) USB 2.0 ports, four (4) connectors, four (4) USB headers
Two (2) or four (4) RS232 serial ports standard (DB9 interface)
One (1) factory configurable to RS422
Infrared support on COM2 through header
One (1) PS/2 mouse/keyboard connector
One (1) floppy connector (supports two drives)

Video Graphics One (1) PCI Express x16 dedicated graphics slot for high-performance graphics cards. Single DB15 connector interface for onboard integrated graphics utilizing Intel Graphics Medica Accelerator 950 (Maximum resolution 2048 x 1536 @ 75Hz)

Memory Four (4) DIMM sockets support up to 4GB of dual channel DDR2 667/533MHz memory

Ethernet One (1) or two (2) onboard PCI Express-based 10/100/1000 Ethernet ports. Both ports support Wake-on-LAN

Sound Intel® High Definition Audio/AC'97

Industrial Devices Hardware monitoring including fans
CPU temperature and voltages
POST display for diagnostics

BIOS AMI®

Battery Removable lithium battery for CMOS memory

Power Connector ATX12V power supply

Environmental Specifications

CATEGORY	OPERATING	NON-OPERATING
Temperature	0°C to 55°C	-40°C to 85°C
Humidity	5% to 95% @ 40°C non-condensing	5% to 95% @ 40°C non-condensing

PRODUCT HIGHLIGHTS

• Intel® Pentium® 4 and Celeron® D embedded processors

• Intel® Pentium® D commercial processors

• Intel® 945G Express chipset

• 800/1000MHz Front Side Bus

• Dual PCIE Gigabit Ethernet options

• Up to 4GB of Dual Channel DDR 667/533/400

• Quad Serial ATA II (300MB/s) RAID

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