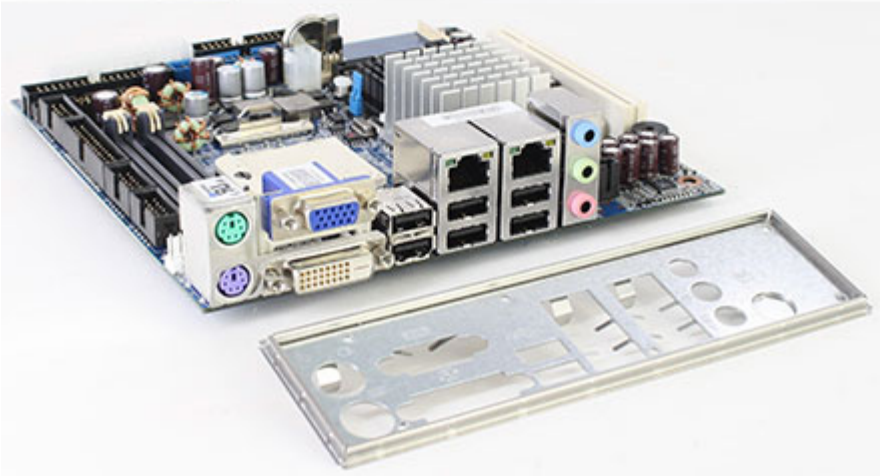

298.00 EUR
incl. 19% VAT, plus shipping

New. 2 years warranty.

Scope of supply :
- Kontron KT690/mITX Mainboard
- I/O shield

Form factor KT690/mITX, KT690/mITX-FW and KT690/mITX (BGA): mini ITX (170.18 x 170.18mm) Processor • Support for Mobile AMD Sempron™, AMD Turion™ 64 and AMD Turion™ 64 X2 Mobile Processors for S1 socket. (KT690/mITX and KT690/mITX-FW only). o 35W maximum TDP o 6.4GB/s HyperTransport™ link, 800 MHz, 16bit/16bit o Hypertransport™ 1.0 Tunnel (I/O Bus) speed of 800MHz o Internal L1 cache of 128KB (Single core CPUs) / 128KB x2 (Dual core CPUs) o Internal L2 cache of 128/256/512KB (Single core CPUs) / 512KB x2 (Dual core CPUs) o Processor technology of 65nm / 90nm • Support for AMD SempronTM BGA Single Core 210U (KT690/mITX (BGA) only). o 15W maximum TDP o Up to 6.4GB/s peak HyperTransport™ link, 800 MHz, 16bit/16bit o Internal L1 data cache 64KB + L1 instruktion cache 64KB o Internal L2 cache of 256KB o Processor technology of 65nm • Support for AMD AthlonTM Neo X2 BGA Dual Core L325 KT690/mITX (BGA) only. o 18W maximum TDP o Up to 6.4GB/s peak HyperTransport™ link, 800 MHz, 16bit/16bit o Internal L1 data cache 2x 64KB + L1 instruktion cache 2x 64KB o Internal L2 cache of 2x 512KB o Processor technology of 65nm • DDR2 memory controller and bus interface Memory • Dual Channel DDR2 memory architecture • 2 pcs DDR2 SODIMM 200pin DRAM sockets onboard. • Support DDR 400/533/667MHz unbuffered memory (PC2-3200/PC2-4200/PC2-5300) • Support system memory from 1x 256MB and up to 2 x16GB (PT only up to 2x4GB has been verified). • ECC not supported Chipset

AMD Chipset consisting of: • AMD M690T northbridge (graphics tunnel) • ATI SB600 southbridge (I/O hub) Video • Integrated ATI Radeon™ X1200 graphics core o CRT Out connector o DVI-D connector (Digital only) o Onboard LVDS connector o TV-Out connector** • Dual independent pipe support: Mirror and Dual Independent displays supported. • Full DirectX® 9.0 support • Maximum resolution of 2048x1536 @ 32bpp for a maximum pixel clock speed of 400MHz. • LVDS interface supports dual channel, 24bit OpenLDI/ SPWG panels. (Audio Audio, 7.1 and 7.2 Channel High Definition Audio Codec using the Realtek ALC888 codec • Line-out and Line-in • Surround output: SIDE, LFE, CEN, BACK and FRONT • Microphone: MIC1, MIC2 • CDROM in • SPDIF Interface Onboard speaker I/O Control Winbond W83627DHG LPC Bus I/O Controller Peripheral interfaces • Six USB 2.0 ports on I/O area • Four USB 2.0 ports on internal pinrows • Two Serial ports (RS232) • One Parallel port, SPP/EPP/ECP • One Floppy port • Four Serial ATA-300 IDE AHCI interfaces • One PATA 66/100/133 interface with support for 2 devices • CF (Compact Flash) interface (KT690/mITX only) supporting CF type I and II. (UDMA2 max.). Note that only one PATA device is supported when CF is used and only by use of 40-wire cable (not 80-wire cable). Optionally use SATA devices. • Two IEEE 1394-1995/ 1394a-2000 OHCI Firewire ports supporting speeds of 100 Mbits/s, 200 Mbits/s, and 400 Mbits/s (KT690/mITX-FW only) • PS/2 keyboard and mouse ports LAN Support • 2x 10/100/1000Mbits/s LAN using o Realtek RTL8111B PCIe controllers on KT690/mITX and KT690/mITX-FW o Intel® Hartwell 82574L PCIe controllers on KT690/mITX (BGA) • RPL/PXE netboot supported. Wake On LAN (WOL) supported BIOS • Kontron Technology / AMI BIOS (core version 8.00) • Support for Advanced Configuration and Power Interface (ACPI 1.0b), Plug and Play o Suspend To Ram (S3) o Suspend To Disk (S4) • Support for Cool'n'Quiet™ • Secure CMOS/ OEM Defaults, "Always On" power setting, Forced Boot device. • Desktop Management Interface (DMI) • Support for addition of System Locked Preinstallation (SLP) key in BIOS • RAID Support (RAID modes 0, 1, and 10) (for Linux O/S limitations may apply) • TPM onboard Expansion Capabilities • PCI Bus routed to PCI slot(s) (PCI Local Bus Specification Revision 2.3) o KT690/mITX: 1 slot PCI 2.3, 32 bits, 33 MHz, 5V compliant • PCI-Express bus routed to PCI Express slot(s) (PCI Express 1.1a) o KT690/mITX: 1 slot PCI-Express x16 with PCI-Express x8 support • Mini PCI-Express routed to mini PCI-Express connector Support for Mini PCI-Express modules with no components on backside. • SMBus routed to FEATURE, PCI slot, PCI Express and mini-PCI Express connectors • LPC Bus routed to TPM connector • DDC Bus routed to LVDS and CRT connector • 8 x GPIOs (General Purpose I/Os) routed to FEATURE connector Hardware Monitor Subsystem • Smart Fan control system, support Thermal® and Speed® cruise for three onboard Fan control connectors: FAN_CPU, FAN_SYS and FEATURE • Three thermal inputs: CPU die temperature, System temperature and External temperature input routed to FEATURE connector. (Precision +/- 3ºC) • Voltage monitoring • Intrusion detect input • SMI violations (BIOS) on HW monitor not supported. Supported by API. Operating Systems Support • Win7 • WinXP • Windows Vista • Windows 2003 • WinXP Embedded • Linux: Feodora Core 8 Environmental Conditions Operating: 0°C – 60°C operating temperature (forced cooling). It is the customer's responsibility to provide sufficient airflow around each of the components to keep them within allowed temperature range. 10% - 90% relative humidity (non-condensing) Storage: -20°C – 70°C 5% - 95% relative humidity (non-condensing) Electro Static Discharge (ESD) / Radiated Emissions (EMI): All Peripheral interfaces intended for connection to external equipment are ESD/ EMI protected. EN 61000-4-2:2000 ESD Immunity EN55022:1998 class B Generic Emission Standard. Safety: UL 60950-1:2003, First Edition CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003 Product Category: Information Technology Equipment Including Electrical Business Equipment Product Category CCN: NWGQ2, NWGQ8 File number: E194252 Theoretical MTBF: 234,251 hours or 26.7 years @ 40ºC ambient air temperature 135,169 hours or 15.4 years @ 60 ºC ambient air temperature Restriction of Hazardeous Substances (RoHS): All boards in the KT690 family are RoHS compliant. Capacitor utilization: No Tantal capacitors on board Only Japanese brand Aluminium and solid electrolytic capacitors rated for 100ºC used on board Battery Exchangeable 3.0V Lithium battery for onboard Real Time Clock and CMOS RAM. Manufacturer Panasonic / Part-number CR2032NL/LE, CR-2032L/BE or CR-2032L/BN Expected minimum 5 years retention varies depending on temperature, actual application on/off rate and variation within chipset and other components. Approximately current draw is 3µA (no PSU connected). CAUTION: Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.