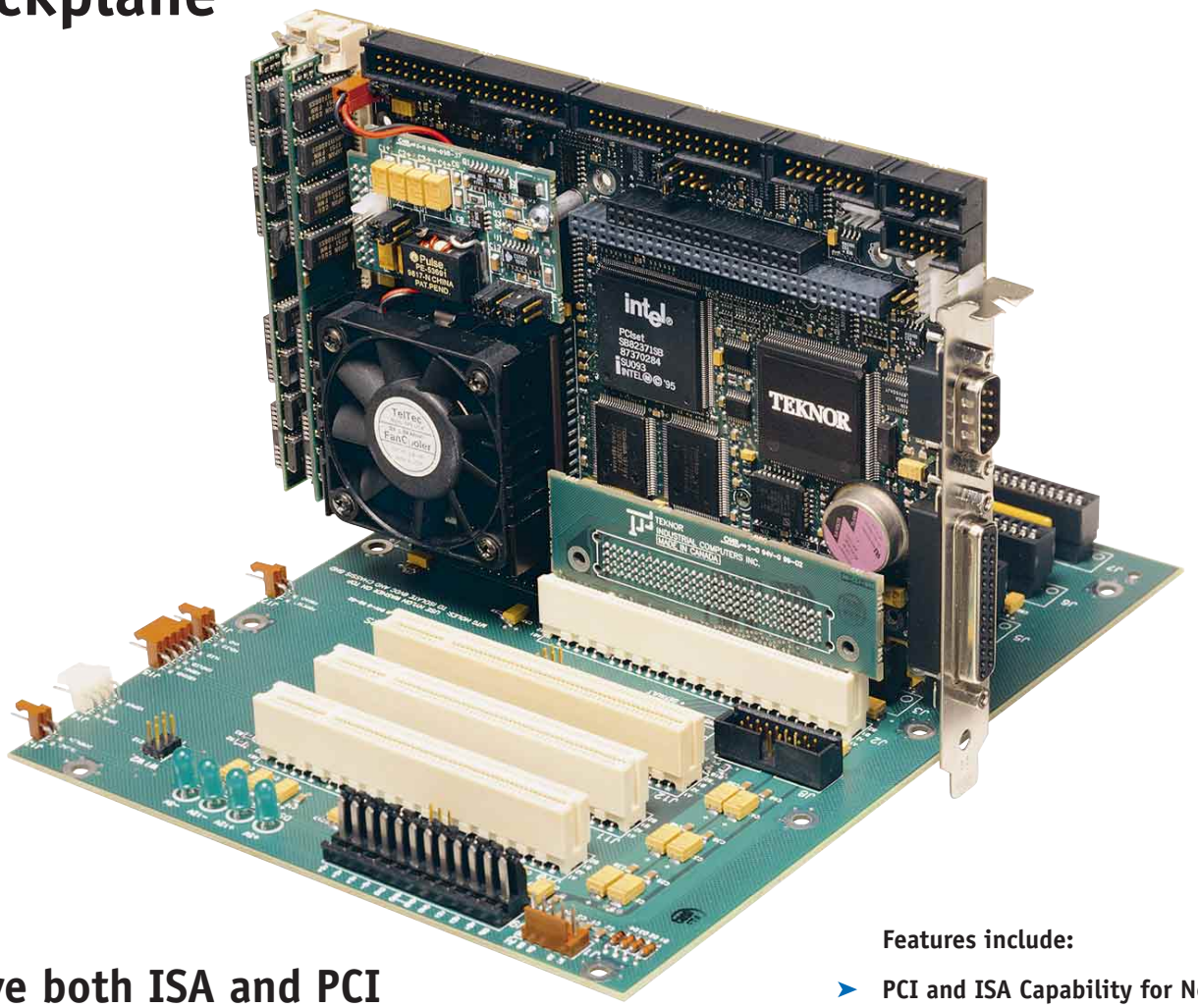
VIPci960

Half-size PCI/ISA passive backplane

- Kontron has taken the standard PICMG form factor and created a PCI/ISA-capable design on a half-size form factor.



Drive both ISA and PCI on a half-size form factor

The VIPci 960 passive backplane, used in conjunction with the T076 PC/104-Plus adapter, makes it possible for Kontron's half-size ISA VIPer series single board computers equipped with the PC/104-Plus expansion connector, to drive both ISA and PCI adapters located on a small form factor passive backplane.

The VIPci 960 has provisions for one Kontron VIPer SBC equipped with the T076 PC/104-Plus adapter, four ISA expansion boards as well as three 5V, 32-Bit PCI expansion boards along with all the usual AT I/O connectors. It is the perfect alternative to the "PISA" bus architecture.

Features include:

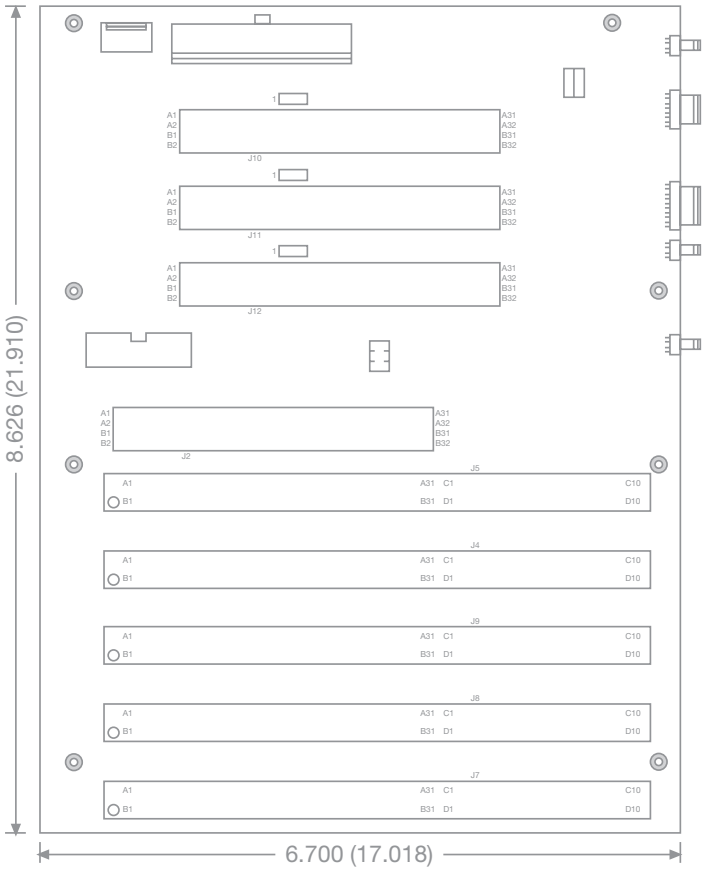
- PCI and ISA Capability for Node/ Shoebox Enclosures
- One dedicated VIPci Technology connector pair (SBC and T076 PC/104-Plus adapter)
- Three 32-Bit/5V DC PCI edge connectors
- Four 16-Bit ISA edge connectors
- Controlled EMI Design

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VIPci960 - Technical Specifications

Mechanicals

- 219.10 mm x 170.18 mm / 8.626 in. x 6.700 in.
- 8 standard 3.9624 mm / 0.156 in. mounting holes
- Baby AT Form Factor



Bus Standards

PCI: Conforms to Rev 2.1 PCI bus & pending PICMG approval

ISA: Conforms to IEEE P996 PC/AT bus spec.

Peripheral Connectors

- Power-on LED / Keyboard Inhibit; Hard Disk LED; Push Button Reset Source Selector; Reset Selector / Power Good; Speaker; Keyboard; Download; Kontron Multifunction; Power Supply; Power-on LED Source Selector; ISA Termination

PCB Layout / Construction

Thickness: 1.5748 mm x 0.1778 mm / 0.062 in. +/- 0.007 in.

Impedance: 65 Ohms +/- 15% (external layers)

Termination: Networks resistors on ISA bus (mounted on sockets)

Number of layers: 4 (2 signal layers, 2 power planes)

Power Requirements (external, fused)

Voltage	Current
+5V	16A
+12V	4A
-12V	4A
-5V	4A

Environmental

Temperature: 0° to 85°C / 32° to 185°F

Humidity (RNC): 0% to 95% non-condensing

Reliability

MTBF: >500,000 hours

Warranty: Two years limited

Designed to meet or exceed:

Safety: UL 1950, CSA C22.2 No. 950 EN 60950, IEC950

EMI/EMC/ESD: FCC 47 CFR Part 15/CISPR22,
CE Mark to EN55022/EN50082

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K-VIPci960.1_10/2000 Rep.0_10/2000

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