



CP306

Kontron 3U CompactPCI Processor Board

Product scope

- The exact order identity fixes board format at 3U CompactPCI within the Kontron 3U CompactPCI platform.
- The hardware path is defined by CompactPCI backplane plus the front and onboard I/O furnished by the selected CP306 configuration.
- Its intended duty is industrial control, transportation, telecommunications and embedded data-processing systems.
- a 3U CompactPCI processor board designed as an embedded system controller for rugged industrial and communications platforms

Official source basis

<https://www.kontron.com/en/products/cp306/p86844>

Technical facts are limited to the identified manufacturer documentation and the exact ordering configuration shown above.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Kontron CP306	

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CP306 technical profile

Kontron CP306 is the documented single board computer in the Kontron 3U CompactPCI family. Operating inside its exact configuration, board format is 3U CompactPCI, while processor class is Embedded x86.

During normal service, the assembly provides host computing, memory, storage and peripheral connectivity within a CompactPCI chassis. The boundary formed by CompactPCI backplane plus the front and onboard I/O furnished by the selected CP306 configuration places it specifically in industrial control, transportation, telecommunications and embedded data-processing systems.

A controlled replacement begins with processor option, memory population, CompactPCI bus, rear-transition use, storage devices and installed operating system. Record BIOS settings and storage image before replacement; CP306 option codes can change connectors and supported peripherals

Selection notice

Retain the CP306 BIOS settings and storage image; processor and rear-I/O options can alter the replacement configuration.

Technical specifications

Board format	3U CompactPCI
Processor class	Embedded x86
System role	Chassis controller
Backplane interface	CompactPCI
Memory type	Configuration dependent
Mass storage	Onboard or connected device options
Front I/O	Build-option dependent
Rear I/O	Transition-module dependent
Firmware	Board BIOS
Cooling	Forced-air chassis design
Application class	Rugged embedded computing
Replacement basis	Complete board configuration

Application and integration notes

Backplane I/O	• Mechanical placement and field transfer must follow the connector or terminal arrangement defined by CompactPCI backplane plus the front and onboard I/O furnished by the selected CP306 configuration. • Integration records must confirm processor option, memory population, CompactPCI bus, rear-transition use, storage devices and installed operating system before conductors, backplane resources or accessories are reassigned. • A point-to-point check is required in industrial control, transportation, telecommunications and embedded data-processing systems because identical mounting geometry does not prove electrical equivalence.
Humidity Range	• The single board computer used in industrial control, transportation, telecommunications and embedded data-processing systems must remain within the environmental limits published for its complete Kontron 3U CompactPCI assembly. • The available official record lists mass storage as Onboard or connected device options; that limit must be interpreted for the exact order configuration. • Airflow, condensation control, contamination and transport protection must be reviewed for the site conditions in industrial control, transportation, telecommunications and embedded data-processing systems.
Certifications	• Compliance for this single board computer is determined from approvals attached to the complete Kontron 3U CompactPCI order configuration. • The official technical record identifies backplane interface as CompactPCI for the documented hardware. • Site, cabinet or hazardous-area approval must be reconciled with the installed labeling used in industrial control, transportation, telecommunications and embedded data-processing systems.

Request product documentation and quotation support

Send the complete label, system configuration, quantity and destination.



Email: info@apterpower.com **Phone:** +86 18106909650

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