K-station – everything under control

Different modules, different operating systems and even different development environments make the programmer’s life more complicated. K-station overcomes this by establishing an abstraction layer. It provides an easy-to-use programming interface to achieve independence and reuse know-how and code on different hardware module configurations, including hardware, BIOS and software configurations.

K-station’s API is identical on all Kontron Computer-on-Modules.

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If it’s embedded, it’s Kontron...
K-station

What can it do?
The whole power of K-station is demonstrated in a comprehensive and powerful reference application. It encapsulates all interfaces of the K-station library in a graphical user interface for fast and easy access. Read more about K-station’s features on the next two pages.

Reference code & programming samples
These reference applications enable quick testing and debugging. The sources available can be used as sound reference code as well as programming samples.

Supported platforms
Kontron provides K-station for Microsoft® Windows®. Further operating systems are planned. The API is compatible with any higher programming language.

Fully implemented features
The K-station features are fully implemented in the reference application and are easily accessed by mouse clicks through the main navigator, while all functions can be integrated into your target application via the API. The following paragraphs list a small selection of examples.

Configuration
VGA backlight, contrast and display resolution configuration made easy.
Watchdog timer and triggers can easily be set.
Boot logo customization and flashing.

Controlling
CPU cover temperature controlled by fan speed or CPU throttling.
Efficiently control conditions and service of the system itself. Access to digital I/O and I²C/PWM devices.
Provides read or write access for onboard storage areas such as EEPROM or CMOS.

Maintenance
General information about Kontron Computer-on-Module itself: Serial No., PCB revision, BIOS rev., running time meter, boot counter, CPU information, CPU and PCB temperature, voltage meter.
Log files are stored as XML formats and can track ubiquitous information, i.e. system alerts, fan speed or voltages.

Monitoring
Support information can be displayed as charts and diagrams.
Kontron’s MARS smart battery system is completely integrated and provides the status of system power connection, current battery voltage, capacity and remaining life-time from one, two or even more batteries.

How is the library linked?
All interfaces are accessible via the library but are also encapsulated as shell tools. This enables universal linking to any higher programming language, e.g. C, C++, C# and Java. For example, API calls are easily performed by simple process calls.

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Adjusting your target application to your needs is as easy as just clicking through all these tools. Fulfill your requirements for HMI, palmtops or 24/7 applications.

For more information about the K-station, please consult Kontron’s website at http://www.kontron.com/k-station

Kontron Academy

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Everything under control

» Powerful software toolkit and developer library for Computer-on-Modules
» Easy-to-use programming interface
» Independence, flexibility and on time in the market

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