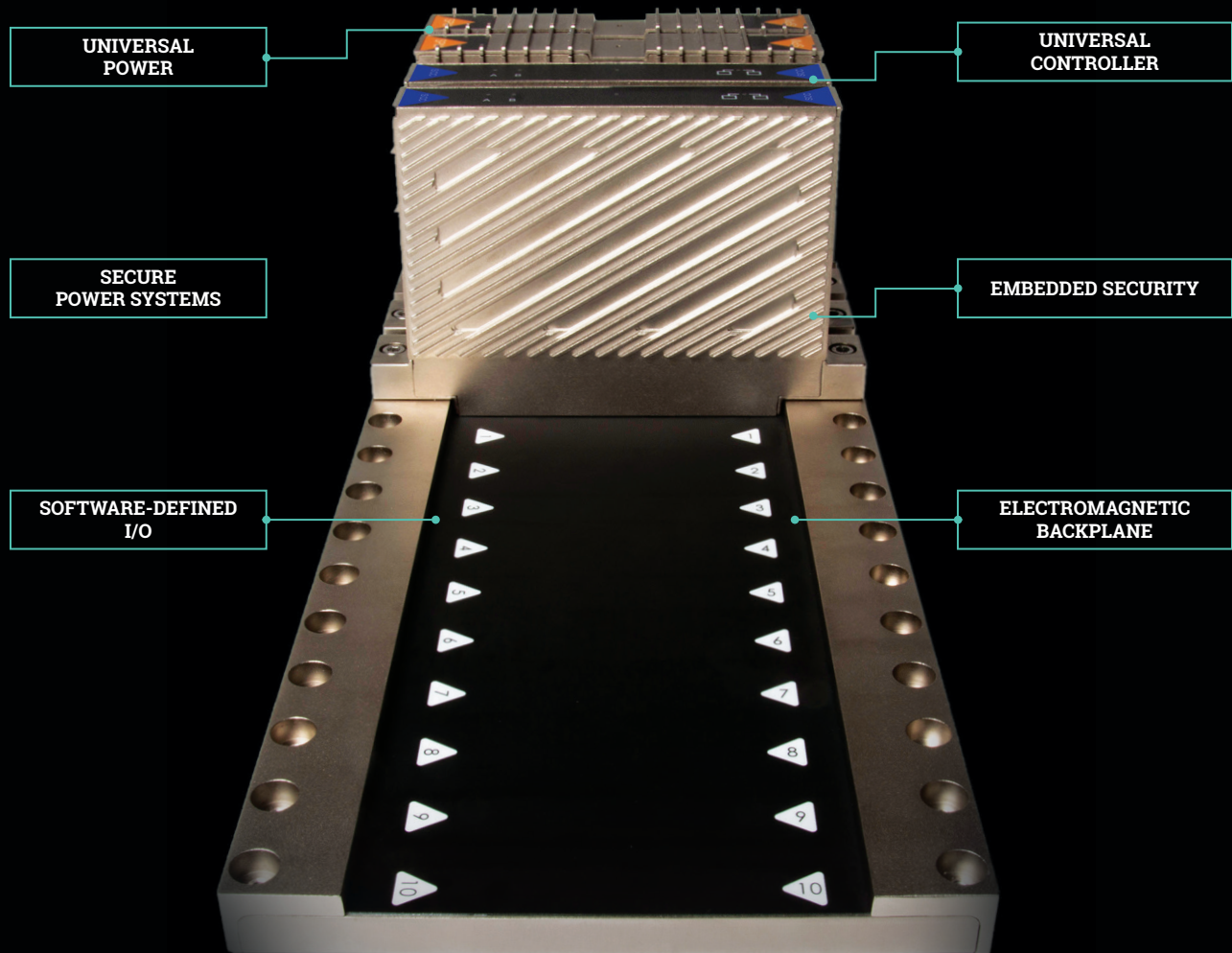


BEDROCK

WE'RE REVOLUTIONIZING INDUSTRIAL CONTROL
AND SETTING INDUSTRY FREE



While control systems seem to be crawling into the future, the technologies from which they are built are not. Moore's law, material science, software and standards race ahead at an accelerating pace with little concern for those left behind...until now. Bedrock Automation has reinvented all aspects of industrial control, resulting in an automation revolution that sets you free.

WELCOME TO THE INDUSTRIAL CONTROL REVOLUTION

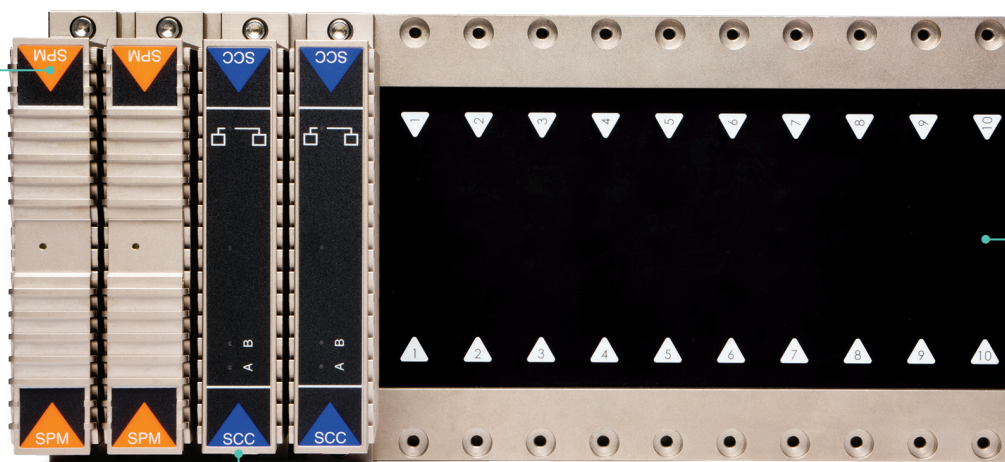
WWW.BEDROCKAUTOMATION.COM

MADE IN USA

THE BUILDING BLOCKS OF AN AUTO

SECURE POWER MODULE (SPM.U)

- A universal secure and optionally redundant power supply module that supports 90-260VAC/125VDC and 24VDC input power, providing all Backplane Module Interconnect (BMI) power to SIO modules and field devices. Also available in a low cost 24VDC input module (SPM.24).
- With no fans and sealed all-metal construction the power modules are extremely reliable and come with a 5 year warranty.
- Advanced design and high quality components provide high efficiency and increased reliability enabling continued operation at extended temperatures.
- Coupled to the backplane, the SPM provides analytics and power status for better predictive maintenance and reliability.



SECURE CONTROLLER (SCC)

- A universal controller for all control modes including Continuous, Batch and Discrete supporting as few as ten, or as many as tens of thousands of I/O in large multi controller systems.
- Embedded OPC UA Server for seamless integration to multiple SCADA platforms.
- Controller is backplane coupled with advanced analytics to improve diagnostics and uptime.
- For safe and secure operation, the controller utilizes redundant layered and embedded cyber security.
- Comes with a 5 year warranty.

BACKPLANE MODULE INTERCONNECT (BMI)

- An unbreakable redundant Black Fabric™ backplane architecture provides ultrafast 4Gbit communications for deterministic I/O scans and secure power for system modules and field devices.
- Electromagnetic interconnect eliminates all I/O pins providing increased reliability, galvanic isolation, and cyber security protection.
- All-metal construction increases reliability and cyber security.
- Comes with a 5 year warranty.



SECURE I/O (SIO)

- 90% reduction in module types for typical users.
- Software defined I/O (UIO – universal analog/digital I/O, UA – universal analog, UDI – universal discrete in, UDO – universal discrete out).
- Single, Dual, and Triple modular redundancy.
- Universal multi-channel Ethernet module on Black Fabric™ (SIO4.E) provides a platform for concurrent and differing Ethernet stacks, as well as a gateway platform for Profibus, Devicenet and Foundation Fieldbus.
- Secure Serial module with 5 channels of RS-232, RS-422 or RS-485 communications.
- Redundant power and communications on a per SIO basis, all without pins.
- Comes with a 5 year warranty.



STAND ALONE SECURE POWER SUPPLY (SPS500)

- Bedrock's SPS utilizes advanced all-metal construction for the highest levels of availability and reliability.
- 500 Watts of power to support most control and field instrumentation.
- Universal 90-260VAC feed with regulated 24VDC output.
- An on-board secure microcontroller provides cyber security and Ethernet communications for a true IIoT user experience.
- Configurable dual Form C contacts.
- An embedded OPC UA server for modern seamless integration to OPC UA enabled control systems.
- IP66/67 rated with a wide operating temperature range.
- Comes with a 5 year warranty.



ENGINEERING SOFTWARE

- Bedrock's Integrated Development Environment (IDE), provides a software based engineering platform that includes all the necessary components for engineering and commissioning of automation applications. An intuitive user interface brings together the core functions into an easy-to-use package.
- Standardized project environment, featuring a project tree for structured project configuration allowing the application to be divided into objects and tasks.
- The development environment ships at no charge with every controller and includes a simulator and debugger for user testing of applications. A fully functional editor is available for download for free from the Bedrock website.
- Editors for all IEC61131-3 compliant implementation languages are supported.



SECURE UNINTERRUPTIBLE POWER SUPPLY (UPS500)

- Bedrock's UPS utilizes advanced all metal sealed construction and advanced lithium polymer battery chemistry for the highest energy density and safety.
- IP66/67 rated with a wide operating temperature range.
- 12AH capacity with 24VDC output.
- An on-board secure microcontroller provides cyber security and Ethernet communications for a new level of data acquisition and diagnostics.
- Programmable dual Form C contacts.
- Advanced battery management and diagnostics built in for battery safety, longest life and predictive maintenance.
- An embedded OPC UA server for modern seamless integration to OPC UA enabled control systems.
- Comes with a 5 year warranty.



UNIVERSAL SYSTEM CABLE

- One universal system cable for all I/O module types.
- Patented 180 degree swivel connector with stress relief knuckle allows for easy construction, independent of wire routing requirements.
- Available in 1m, 3m, 5m and custom lengths.



WE STARTED WITH A BLANK SHEET OF PAPER

and three prime directives to revolutionize industrial control systems:

SIMPLE, SCALABLE, SECURE™

SIMPLE

Engineer virtually any automation solution with fewer than a dozen part numbers including a universal electromagnetic backplane, universal I/O, Ethernet I/O, smart coupled power, one extreme controller, and just one universal I/O system cable...

The FIRST prime directive was met.

SCALABLE

Unlimited scalability from tens to tens of thousands of I/O with software selectable single, dual or triple redundancy, an ultra-fast 4Gb electromagnetic backplane and patented asynchronous Black Fabric™ communications coupled to a controller with unparalleled power...

The SECOND prime directive was met.

SECURE

Transparent instant cyber security working 24/7. All traditional industrial control systems are vulnerable to multiple forms of cyber-attack, IP and counterfeiting theft. Black Fabric™ Cybershield is Bedrock's embedded deep trust cyber defense using patented processor, memory, communications, interconnections, backplane and packaging technologies to integrate cyber security into every module at birth...

The THIRD and most difficult prime directive was met.

A NEW AUTOMATION EXPERIENCE IS CREATED THAT SETS OUR USERS FREE.

Bedrock Automation, based in San Jose, California, is the maker of Bedrock™, the most powerful and cyber secure automation platform in the world. This Silicon Valley company has assembled the latest technologies and talents from both the automation and semiconductor industries to build an unprecedented automation solution for industrial control.

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RECOGNITION

