American Auto-Matrix®

A worldwide leader in providing Smart Building Solutions®, providing HVAC, Access, Lighting, Light Process and Laboratory and Fume Hood control.

Our Mission

Be the premier market-driven designer, developer, and manufacturer of Smart Building Solutions. We are uncompromising in our quest to provide the most comprehensive products, technology, service, and support to the people and facilities we serve.

Our Vision

AAM pairs unparalleled support, service, and training facilities to provide our Solution Integrators with everything they need to succeed.

Our Solutions

Build mutual beneficial relationships with those who share our core values of Excellence, Honesty, Integrity, and those who focus on exceeding the expectations of the customer.

We pledge to make the relationship with American Auto-Matrix your most valuable asset.

Founded in 1979 as Innovative Technology, the company was rebranded as American Auto-Matrix in 1982. The same year, we introduced the AI2100 Building Brain as the first facilities automation system in the world to offer an open communications protocol, generation-to-generation compatibility, distributed intelligence, direct digital control, and object-oriented programming.
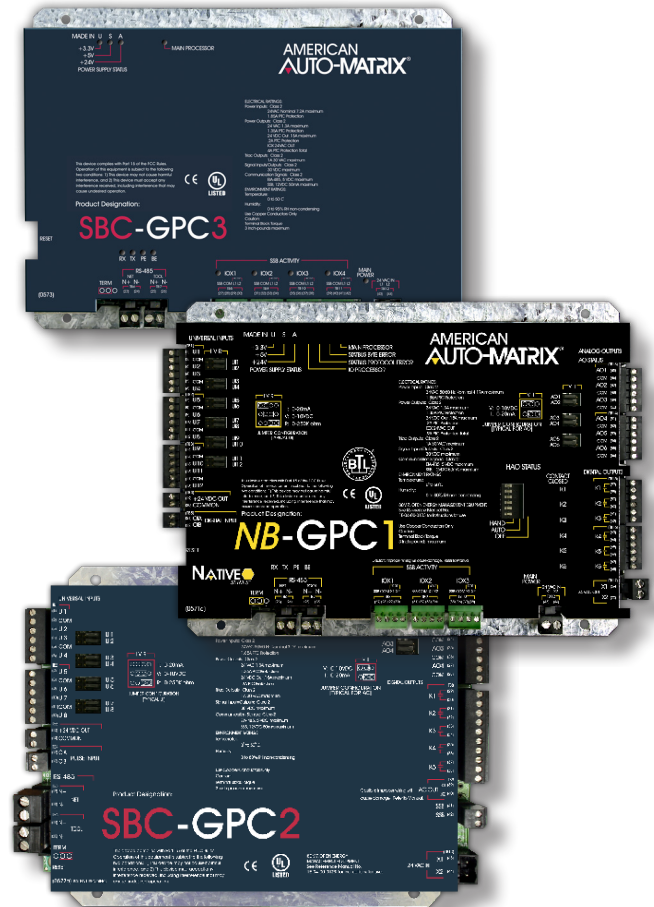

Four years after its purchase by the Jordan Acquisition Group, LLC, AAM officially became a Service-Disabled Veteran-Owned Small Business, Woman Owned Business (SDVOSB/WOB) in 2006. These classifications opened even more opportunities for growth and strategic development to an already expanding American-owned company. We believe our strategies, like our products, must be flexible to fit the needs of almost any situation.

American Auto-Matrix has always realized the importance of open systems architecture for Building Automation Systems. We pioneered the concept of open protocols for building automation systems in the mid-1980s with our Public Host Protocol™ (PHP) and Public Unitary Protocol™ (PUP) systems. AAM's philosophy of open communication systems has become widely accepted and specified in the industry with the emergence of BACnet® and Modbus®.

American Auto-Matrix manufactures products which adhere to these industry standards. We continue to lead the way in the world of open architectures while providing backwards compatibility between generations. New products are carefully engineered to function smoothly with its predecessors. This built-in non-obsolescence means greater economy for owners and managers of buildings and networks.

Web-Enabled Controls
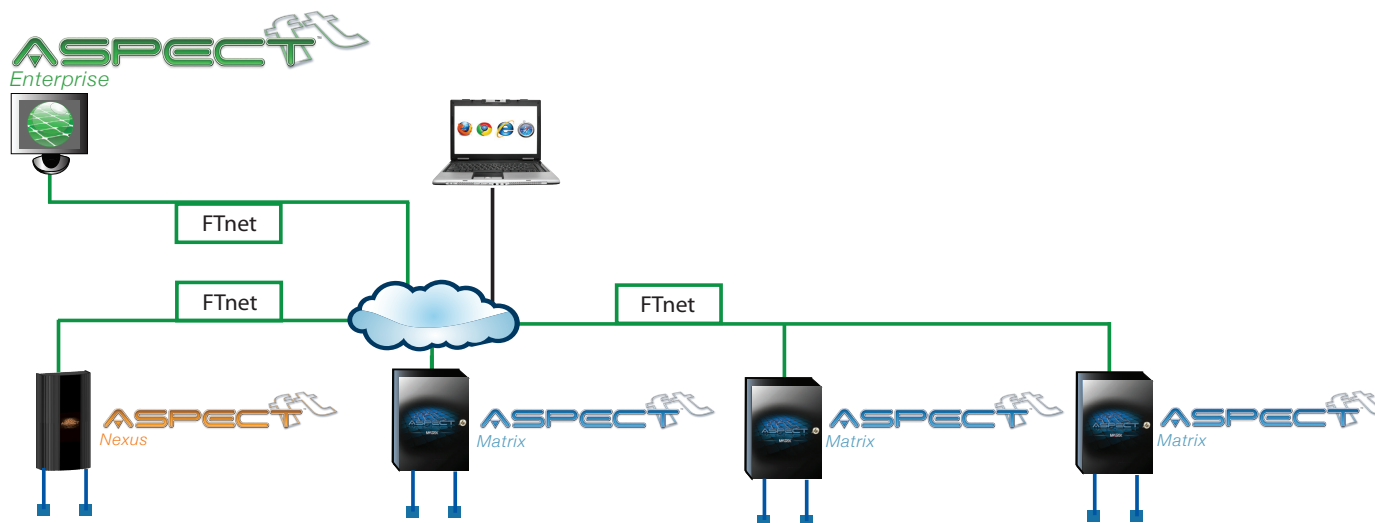
AspectFT Product Family

AspectFT, the American Auto-Matrix System Architecture, combines efficient and powerful Building Automation Control with an easy-to-use, web-based interface. Based on the open-standards of many industries, this software performs control sequences and building management routines from an array of device platforms using BACnet, PUP, or Modbus. An additional advantage is the generation-to-generation compatibility of the AspectFT products to effectively communicate with older AAM systems. Our system architecture supplies a robust platform for integrating multiple data sources into one unified solution using the power of AspectFT, which allows you to store data anywhere and retrieve it using standard web browsers such as Internet Explorer® or Mozilla Firefox. You'll find multiple solutions to fit your needs, including the ability to use features such as Google™ Calender, Outlook® 2007, and over 40 other iCalender tools to schedule your building. You can even receive information through standard email, RSS feeds, and Twitter!

Integra

The Integra™ offers a complete real-time supervisory network with its compact integration platform. Specifically designed for commercial applications, the Integra™ offers seamless integration capabilities for common communication protocols and legacy systems. A growing library of communication drivers is combined with a JAVA-based Graphical User Interface to permit the user to view and control fundamental systems without a dedicated workstation or client software. This product integrates seamlessly with PUP, PHP, and BACnet® products as well as open systems protocols such as LonWorks®, Modbus®, and OPC® with the appropriate optional drivers.

Matrix BBO Router

The Matrix™ BBO Router allows seamless packet routing between BACne/MSTP as well as BACnet/IP or BACnet/Ethernet networks. The router is a BTL listed, BACnet compliant, ANSI/ASHRAE Standard 135 device that is housed in a lockable metal enclosure.

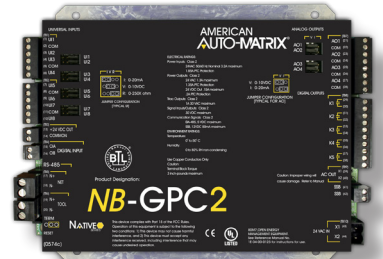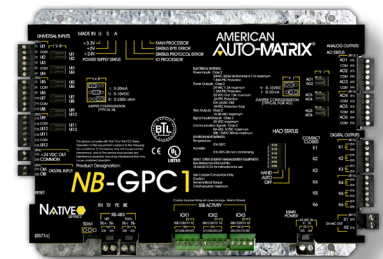# Unitary Controls with Expansion Capabilities

GPC Product Family

The GPC Product Family is a smart, stand-alone DDC that is application-specific. Using STATbusTM technology, the design of the GPC allows you to rapidly configure for easier and more efficient engineering, installation, and commissioning. The GPC line provides reliable, high speed communication with superior local performance.

ASC(e)/VAV/V3T

This product family is based on a common hardware platform dedicated to application-specific controllers. The ASC(e) is application controllable and can be employed in light duty custom control applications in Rooftop, Heat-pump, and Fancoil modes. The VAV controller provides flexible mounting solutions and is designed to function in scenarios that require variable air volume, constant air volume, and CO_2 measurement. The V3Tb, a unitary static pressure controller, and the V3Td, an airflow digital controller, are also provided to supply variable volumes of air to constant volume air handler units.

Touch Screen Displays

The Auto-Matrix Point Interface (API) line of touch-screen displays provide an innovative solution with more power than a typical STAT but easier to use than a full front-end. In the HVAC field, our Native BACnet solution (the NB-SD), the AAM Proprietary Protocol (the SBC-SD), and the BACnet version available for distribution (the BBC-SD) allow you to interface with up to 150 unique points on your network. Screen text is customizable and allows for viewing and manipulation of data. Different levels of access to the system can be controlled with multiple user password protection. If you need Critical Environment fume hood control, the AAM solution can interface with the Auto-Flow controller for interfacing and commissioning the hood while displaying the Face Velocity in real time. The user can also configure the Auto-Flow controller for Sash, Face Velocity, or Feed Forward Control.

Critical Environments

Auto-Flow

Auto-Flow® Critical Environments Solutions are complete systems for fume hood, lab, and clean room environments. Offering unprecedented flexibility and durability, these patented technologies combine with Native BACnet® control to connect seamlessly with any AAM HVAC control system as well as any Native BACnet® compliant system. The Auto-Flow® system focuses on providing a solution with a widely accepted open protocol with a high level of flexibility that does not increase the learning curve or introduce unfamiliar methods and technologies.

Commissioning Tools

Aspect Studio, NB-Pro, API-Pro, and SoloPro are designed to lower your installation costs and reduce onsite time by allowing the technician to flash upgrade and commission controllers over an IP network. Specific changes can be done remotely, reducing travel and hourly costs.

American Auto-Matrix is dedicated to developing strong, mutually beneficial relationships with our Solution Integrators® (SIs). We truly set the standard for fostering success by providing technical support, training, marketing, and dealer programs that complement our building automation systems. Our commitment completes the Smart Building Solution®.

AAM Technical Support

A full support staff is available to work with our network of Solution Integrators, and our technicians provide realistic solutions with each and every call received. AAM guarantees a 24-hour response to technical inquiries and works diligently to resolve every issue.

Our technical support team can resolve issues ranging from simple questions, such as what kind of wire should be used, to application assistance across the life of a project. Technical support is also available for the setup and programming of the complete line of AAM products.

In addition, our staff supports our Internet-based web tools. Our Solution Integrators are registered for our AAM Toolbox, which is an electronic toolbox and web-board available through our secure web-site 24 hours a day. The toolbox contains information such as Engineering drawings, custom programs, documentation, technical tips, and other files that help reduce the overall engineering, programming and commissioning of projects in the field.

Educational Services

Education and training are important to the success of any new Solution Integrator or end-user. The Training Center for Smart Building Solutions®, located at the American Auto-Matrix headquarters in Export, PA, is a state-of the art training center that offers a wide range of workshops for the AAM product line. The training center offers theoretical and hands-on workshops that provide students with the tools needed to sell and utilize AAM products and technologies. The workshops are not only provided for the success of the Solution Integrator, but also for the success of their customers. End-users are welcome, and receive the same level of instruction as the Solution Integrators.

Sales and Marketing Support

The American Auto-Matrix /Solution Integrator relationship is a cooperative process. We believe the success of any relationship is reliant on this collaboration, and our Sales and Marketing departments are committed to providing support to our SIs. These efforts include visits from corporate personnel to your customers, engineers, and end-users as well as project reference listings, custom company store items, links to our website, lunch and learn sessions, and sales calls.

American Auto-Matrix also offers the Co-Op Marketing plan. AAM's Co-Op Marketing is an opportunity for Solution Integrators to customize AAM promotional materials to reflect their business and image. American Auto-Matrix will work with Solution Integrators to develop custom content to create a cohesive marketing presentation.

"Smart" means our products are designed to think like people, not like machines. We continually strive to design and develop technologies for the building automation industry which change the way people think about their buildings. Our products provide comfort, safety, and cost effective design for the future.

"Building" originates from our focus on relationships. The success of each project is based on the relationships that are developed with our Solution Integrators and their customers. This relationship is key to how successfully our products serve the needs of people.

"Solutions" reflects our many technological innovations, including being the first to offer direct digital control (DDC) and open communication protocols, generation-to-generation compatibility, patented laboratory and fume hood controls, and access control systems, as well as unparalleled support and service to our Solution Integrators.

AAM installations include the American Museum of Natural History, where exhibits such as Leonardo da Vinci's Codex Leicester: A Masterpiece of Science required climate regulating controls to preserve the last privately held manuscript of Leonardo da Vinci, and the Zeiss Star Projector, one of the most advanced projectors in the world, that utilizes AAM controls to regulate temperature and humidity. Installed sites also include an Auto-Flow® laboratory control system in the University of Maryland, ranked by the Carnegie Foundation in the top tier of national research universities. The control system has the unique capability to provide a total fume hood control solution that "allows for maximum efficiency and increased energy savings while providing precise temperature, humidity, and pressure control throughout the day for students and faculty alike." *

Our American-made products, approach to open systems, commitment to backwards compatibility, and continuous technological innovation, coupled with the best customer service and sup-

* "University Known for IT Experiences Advantages of Single Source Controls." Engineered Systems Magazine: Copyright 2008

AAM Installations: Stating at the top right (CCW): Independence Blue Cross Hospital, New York City Public Library, St. Bonaventure University, Anglo Platinum, Haverford College, University of Maryland, American Museum of Natural History