Experiencing the Innovation with IoT Gateway
Looking for A Reliable and Tiny Computer? ARM + Linux is What You Need.

**ARM**
- Low power consumption RISC
- Highly integrated SoC
- Mature and mass market technology

**Linux**
- Market proven open technology
- Complete application building blocks
- Life cycle is under your control + Linux is What You Need

**Linux Tool Chain**
- File Pre-load
- User Applications
  - Linux Kernel 2.6.x
  - Hardware Device Drivers
    - RTC / Flash / RAM / I2C / I2S / SPI / GPIO
    - Ethernet / CAN / Serial / USB
  - Backup Boot System

**Customers focus on**
- Artila provides all Linux building blocks for customers

**Web Enables Remote Management**

**Application Proven**
With worldwide experience in product integration, Artila’s products are widely used in power management, light control, access control system, parking facilities, solar energy system integration, RFID, environmental monitoring, and more.
The Aport series come with ARM cortex M series controller plus FreeRTOS and programmer friendly APIs make your life easy. For budget limitation project, the low power ARM cortex M3 plus the high efficient FreeRTOS make Aport-212PG an ideal light weight computing platform for device networking and remote monitoring.

Modbus Gateway
The Aport series come with ARM cortex M series controller plus FreeRTOS and programmer friendly APIs make your life easy. For budget limitation project, the low power ARM cortex M3 plus the high efficient FreeRTOS make Aport-212PG an ideal light weight computing platform for device networking and remote monitoring.

PAC series is a Linux-based, C/C++ programmable automation controller. Network-enabled and web-ready PAC features rich analog and digital I/O for real-world I/O control. Based on M-series SoM, PAC is a true Linux computing platform with file system support. In order to deal with the harsh environment, PAC series provide 2500Vrms isolation in the RS-485, analog and digital I/O. The PAC family is also equipped with a wide-range power input function. With failure prevention and the design of redundant start-up, Artila PAC series are ideal for many mission-critical applications.

Modbus Gateway
The Aport series come with ARM cortex M series controller plus FreeRTOS and programmer friendly APIs make your life easy. For budget limitation project, the low power ARM cortex M3 plus the high efficient FreeRTOS make Aport-212PG an ideal light weight computing platform for device networking and remote monitoring.

PAC-4010

PAC series is a Linux-based, C/C++ programmable automation controller. Network-enabled and web-ready PAC features rich analog and digital I/O for real-world I/O control. Based on M-series SoM, PAC is a true Linux computing platform with file system support. In order to deal with the harsh environment, PAC series provide 2500Vrms isolation in the RS-485, analog and digital I/O. The PAC family is also equipped with a wide-range power input function. With failure prevention and the design of redundant start-up, Artila PAC series are ideal for many mission-critical applications.

Modbus Gateway
The Aport series come with ARM cortex M series controller plus FreeRTOS and programmer friendly APIs make your life easy. For budget limitation project, the low power ARM cortex M3 plus the high efficient FreeRTOS make Aport-212PG an ideal light weight computing platform for device networking and remote monitoring.

PAC-4010

Artila M-series ARM+Linux-ready System on Module (SoM) is an application-ready platform for designers to reduce cost and time in hardware and software design. The M-series SoM, including ARM SoC, memory and flash, and pre-installed Linux OS, are in a credit card size module with 128 pin headers. The pre-loaded file system includes busybox utility collection, web server and USB device drivers. M-series SoM features Ethernet, UART, USB, SD interfaces, and serial bus such as I2C, SPI and I2S. The 32 GPIOs are useful for input and output monitoring and control. Artila M-series accelerate the adoption of IoT and facilitate innovation in the digital enterprise.

M-A5D35

Web-based Remote I/O
The RIO family, a web-ready, analog and digital I/O product lines, allows users to access and monitor the real-world data by using web interface or Modbus TCP / RTU protocols. RIO Series are based on the same hardware and software architecture as the Aport; therefore, customers can develop the desirable functions easily by using the Aport FreeRTOS development kit. Windows and Linux API library are also included in the RIO family. Thus, users can access the RIO products easily to cope with the fast-pace and ever-changing trend of the industrial computing industry.

RIO-201X BM Series

The RIO family, a web-ready, analog and digital I/O product lines, allows users to access and monitor the real-world data by using web interface or Modbus TCP / RTU protocols. RIO Series are based on the same hardware and software architecture as the Aport; therefore, customers can develop the desirable functions easily by using the Aport FreeRTOS development kit. Windows and Linux API library are also included in the RIO family. Thus, users can access the RIO products easily to cope with the fast-pace and ever-changing trend of the industrial computing industry.

RIO-201X BM Series

Intelligent IoT Gateway
Matrix ARM-based box computer is a Linux/WinCE-ready industrial computing platform designed for data concentration and device gateway. Built rugged, its extra low-power RISC architecture realizes fanless computing. Featuring a fault resilient boot mechanism, Matrix can boot up from backup data flash automatically in case the onboard NAND flash fails. Matrix comes with Ethernet ports for wired networking and wireless LAN/3G networking, and it also can be expended by adding USB dongles or miniPCiE cards. For real-time and small footprint applications such as protocol conversion and real-time control, the compact and easy-to-use FreeRTOS is the Artila’s choice of software operation platform. Artila Intelligent IoT Gateway allows customers to integrate in their systems efficiently and painlessly.

Matrix ARM-based box computer is a Linux/WinCE-ready industrial computing platform designed for data concentration and device gateway. Built rugged, its extra low-power RISC architecture realizes fanless computing. Featuring a fault resilient boot mechanism, Matrix can boot up from backup data flash automatically in case the onboard NAND flash fails. Matrix comes with Ethernet ports for wired networking and wireless LAN/3G networking, and it also can be expended by adding USB dongles or miniPCiE cards. For real-time and small footprint applications such as protocol conversion and real-time control, the compact and easy-to-use FreeRTOS is the Artila’s choice of software operation platform. Artila Intelligent IoT Gateway allows customers to integrate in their systems efficiently and painlessly.

Matrix-700

Programmable Automation Controller
PAC series is a Linux-based, C/C++ programmable automation controller. Network-enabled and web-ready PAC features rich analog and digital I/O for real-world I/O control. Based on M-series SoM, PAC is a true Linux computing platform with file system support. In order to deal with the harsh environment, PAC series provide 2500Vrms isolation in the RS-485, analog and digital I/O. The PAC family is also equipped with a wide-range power input function. With failure prevention and the design of redundant start-up, Artila PAC series are ideal for many mission-critical applications.

PAC-4010

Programmable Automation Controller
PAC series is a Linux-based, C/C++ programmable automation controller. Network-enabled and web-ready PAC features rich analog and digital I/O for real-world I/O control. Based on M-series SoM, PAC is a true Linux computing platform with file system support. In order to deal with the harsh environment, PAC series provide 2500Vrms isolation in the RS-485, analog and digital I/O. The PAC family is also equipped with a wide-range power input function. With failure prevention and the design of redundant start-up, Artila PAC series are ideal for many mission-critical applications.

PAC-4010

IoT Device Platform
Artila M-series ARM+Linux-ready System on Module (SoM) is an application-ready platform for designers to reduce cost and time in hardware and software design. The M-series SoM, including ARM SoC, memory and flash, and pre-installed Linux OS, are in a credit card size module with 128 pin headers. The pre-loaded file system includes busybox utility collection, web server and USB device drivers. M-series SoM features Ethernet, UART, USB, SD interfaces, and serial bus such as I2C, SPI and I2S. The 32 GPIOs are useful for input and output monitoring and control. Artila M-series accelerate the adoption of IoT and facilitate innovation in the digital enterprise.

M-A5D35

IoT Device Platform
Artila M-series ARM+Linux-ready System on Module (SoM) is an application-ready platform for designers to reduce cost and time in hardware and software design. The M-series SoM, including ARM SoC, memory and flash, and pre-installed Linux OS, are in a credit card size module with 128 pin headers. The pre-loaded file system includes busybox utility collection, web server and USB device drivers. M-series SoM features Ethernet, UART, USB, SD interfaces, and serial bus such as I2C, SPI and I2S. The 32 GPIOs are useful for input and output monitoring and control. Artila M-series accelerate the adoption of IoT and facilitate innovation in the digital enterprise.
About Artila

Your Trusted Partner for Device Networking & Computing

Founded in 2005, Artila Electronics has more than 15 years of experience in Industrial Computing. Artila’s product lines include the intelligent IoT gateway, programmable automation controller, IoT device platform, and web-based remote I/O. Artila’s products have been widely used in energy management, intelligent buildings, lighting control and environmental monitoring, and so on. Artila also provides hardware and software customization services to meet customer requirements for special specifications and features. From product design to production quality, Artila Electronics strives for delivering top-notch solutions and services to our customers in the industrial automation market.