

uP Logic Controllers

uP5100, uP5200, uP5300

arcx 

Connecting **People** to your **Process** to improve **Quality**

The uP logic controller is a high-performance, compact, flexible factory integration device which replaces separate HMIs, PACs, network interfaces, database gateways and multiple I/O devices.

Our solution allows you to create your own error proofing system with a minimum of components and integration effort.

Connecting factory assets to your enterprise using standard protocols, the agility of human capital in the assembly process is maximized.

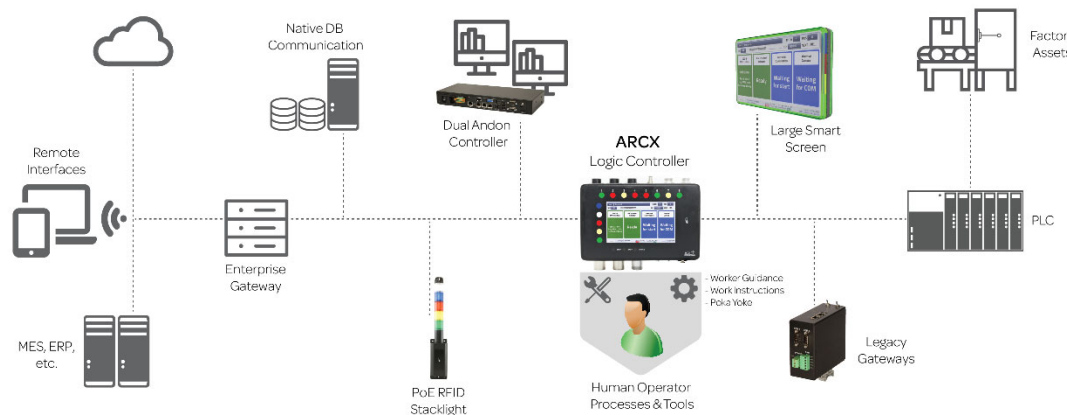


APPLICATIONS

- Advanced materials handling and replenishment
- Operator/Tool assist (Poka Yoke)
- Automated device testings
- Ignition Edge V8 Client & Server
- Factory Talk ViewPoint V11 Client

FEATURES & BENEFITS

- Supports concurrent network protocols including Ethernet/IP, DeviceNet, FL-net, TCP/IP, ProfiNET and others
- Native communication with common database platforms
- Connect shop floor devices and business IT systems
- Remote management and troubleshooting via web browser
- Bundled simulation software for pre-commission system design and testing
- Custom app development in JavaScript and HTML5 using the WAT API
- Supports Industry Standard wired and wireless Tool Controllers



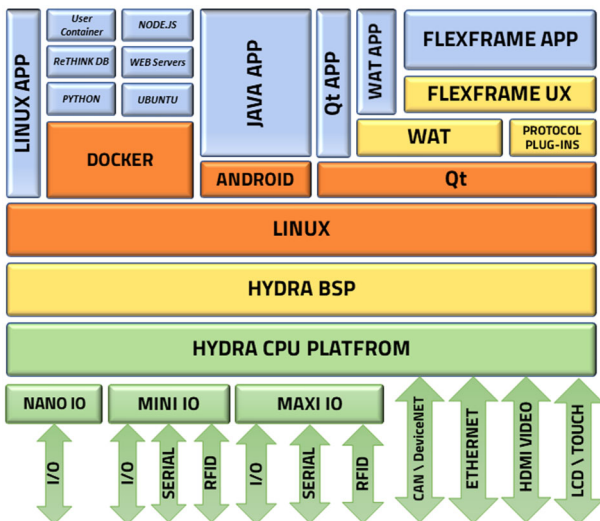
The **uP5000 Logic Controllers** represents the Next-Generation of integrated automation control devices. Built on high-performance, open-platform industrial technologies, they replace more expensive systems that typically require separate HMIs, PLCs, network interfaces, database gateways and I/O. Using Ethernet/IP, DeviceNet, Profinet, Profibus, FL-net and other industry protocols, the uP5000 provides reliable connectivity to a variety of common PACs, automation equipment, plus directly to database servers and business IT systems. Sensors, actuators, and tools connect to the extensive built-in I/O ports. The uP5000 is easily programmed, using open standard languages, allowing for simple to sophisticated applications. Low-cost development tools allow for programming on the device directly, remotely, or on a PC with full simulation.

Model #	AXM-UP5100-0x01	AXM-UP5200-0x01	AXM-UP5300-0001
Performance	ARM Cortex A9 QUAD Core 1.0GHz max	8 Core ARM Cortex iMX8QMax 1.6GHz max	i5-6300
Memory	4GByte DDR3L, 64MByte QSPI NOR, 32GByte eMMC5	4GByte LPDDR4-3200, 64MByte QSPI NOR, 32GByte eMMC5	8GByte LPDDR4-3200
SSD Storage	<i>OPTIONAL</i> : 480GByte m.2 SSD	<i>OPTIONAL</i> : 480GByte m.2 SSD	128GByte m.2 SSD
User Interface	LCD 21.5" Active TFT LCD (LED) 1920x1080, 16 bpp, 225nits, C/R 1000:1		
Touch panel	10 Touch Projected Capacitive Touch	10 Touch Projected Capacitive Touch	10 Touch Projected Capacitive Touch
Optional video out 1	1080p60Hz (via HDMI)	1080p60Hz (via HDMI)	1080p60Hz (via HDMI)
Audio out	via HDMI	via HDMI	via HDMI
HID Reader (<i>optional</i>)	Integrated 13.5MHz RFID Reader	Integrated 13.5MHz RFID Reader	Integrated 13.5MHz RFID Reader
Communication	IO-Link OPT-0101 : 2 Channel IO-Link™ Master (MDC 5 pin)		
Ethernet 1	10/100/1000 with PoE 802.3bt	10/100/1000 with PoE 802.3bt	10/100/1000 with PoE 802.3bt
Ethernet 2	10/100/1000	10/100/1000	10/100/1000
Fieldbus protocols	Ethernet/IP	Ethernet/IP	-
USB 2.0 Host	4	2	2
USB 3.0 Host	-	2	2
Physical	Size 20.5" x 12.5" x 1.1" (2.75" for VESA section)		
Temperature	Storage: -20°C to +60°C, Operating: 0°C to +40°C, Humidity: 40% non-condensing		
Vibration	5-17Hz, 0.1" double amplitude displacement 17-640Hz, 1.5G acceleration peak to peak		
Shock	10G (11ms) peak-to-peak acceleration		
Enclosure	IP65 with Clear Polycarbonate and powder coated Aluminum sections		
Network Protocols*	Websockets, Webservice, TCP/IP, Ethernet/IP Client & Server, CIP, DeviceNet, CC-Link, ProfiNet, ModBus, OPC UA Nano profile		-
Warranty	1 year limited	1 year limited	1 year limited
Software Support	Linux 4.1.15, Android 6.x, Docker, Webkit, Qt, FlexframeUX, WAT		Windows 10 IoT Enterprise

AXM-UP5000 bottom panel



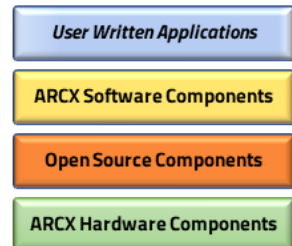
AXM-UP5xxx back panel



The ARCX architecture allows for users to write at any layer their team is proficient at, from low level LINUX, DOCKER to our simplified Flexframe and WAT environments.

WAT is a collection of HTML5, CSS3 and Javascript languages use in conjunction with our WAT API that allows one to develop graphical applications with native I/O interaction.

FLEXFRAME further simplifies development and deployment of ANDON, PokaYoke and generic applications for entry level developers.



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