

# uP Logic Controllers

uP5000

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.

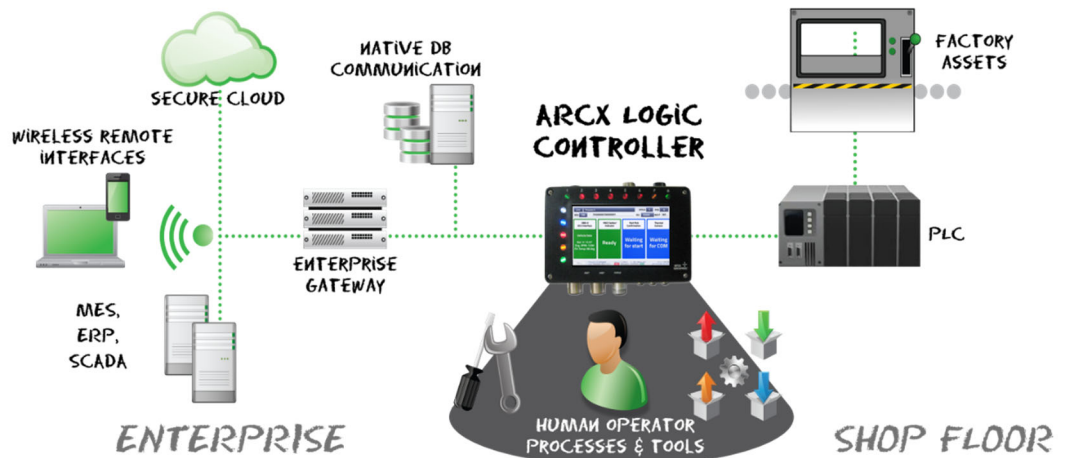


## APPLICATIONS

- Advanced materials handling and replenishment
- Operator/Tool assist (Poka Yoke)
- Automated device testing

## 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.

# Technical Specifications

<b>Model #</b>	AXM-UP5000-xxxx	
<b>Performance</b>	4 Core ARM Cortex A9 (iMX6 QUAD) 1GHz max, 400MHz standby	
<b>Memory</b>	2 - 4Gbyte DDR3-1066, 16Mbyte NOR, 8 - 64Gbyte eMMC	
<b>Optional Storage</b>	500GByte mSATA SSD	
<b>User Interface</b>		
LCD	21.5" Active TFT LCD (LED) 1920x1080 16 bpp, 225nits, C/R 1000:1	
Touch panel	10 Touch Projected Capacitive Touch	
Optional video out 1	1080p60Hz (via HDMI)	
Audio out	STEREO Sub Miniature Jack (and via HDMI)	
Audio in	STEREO Sub Miniature Jack	
Stack Light Border	Full perimeter multicolor LEDs (300 individually selectable)	
HID Reader (optional)	Integrated 125KHz/13.5MHz RFID Reader	
<b>Communication</b>		
IO Bus	2 Channel IO Link™ Master (MDC 5 pin)	
PoE 802.3at	YES (backup)	
Ethernet 1	10/100 with PoE 802.3at	
Ethernet 2	10/100 (switched to ETH 1)	
Ethernet 3	10/100/1000 (independent)	
Fieldbus protocols	Ethernet/IP, ProfiNET Slave, FLNet, MODBUS	
USB 2.0 Host	2	
<b>Physical</b>		
Power	120Vac (29watts)	
Power over Ethernet	802.3at (CPU backup only)	
Weight	21 lbs	
Size	23" x 15" x 2"	
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	IP41 with Clear Polycarbonate and powder coated Aluminum sections	
<b>Network Protocols*</b>	Websockets, Webservice, TCP/IP, Ethernet/IP Client & Server, CIP, FLnet, ProfiNet, DeviceNet, CC-Link, ProfiNet, ModBus, OPC UA Nano profile	
<b>Warranty</b>	1 year limited	
<b>Software Support</b>	Linux 4.1.15, Android 6.x, Docker Webkit, Qt, FlexframeUX, WAT	

AXM-UP5000 back panel



AXM-UP5000 bottom panel

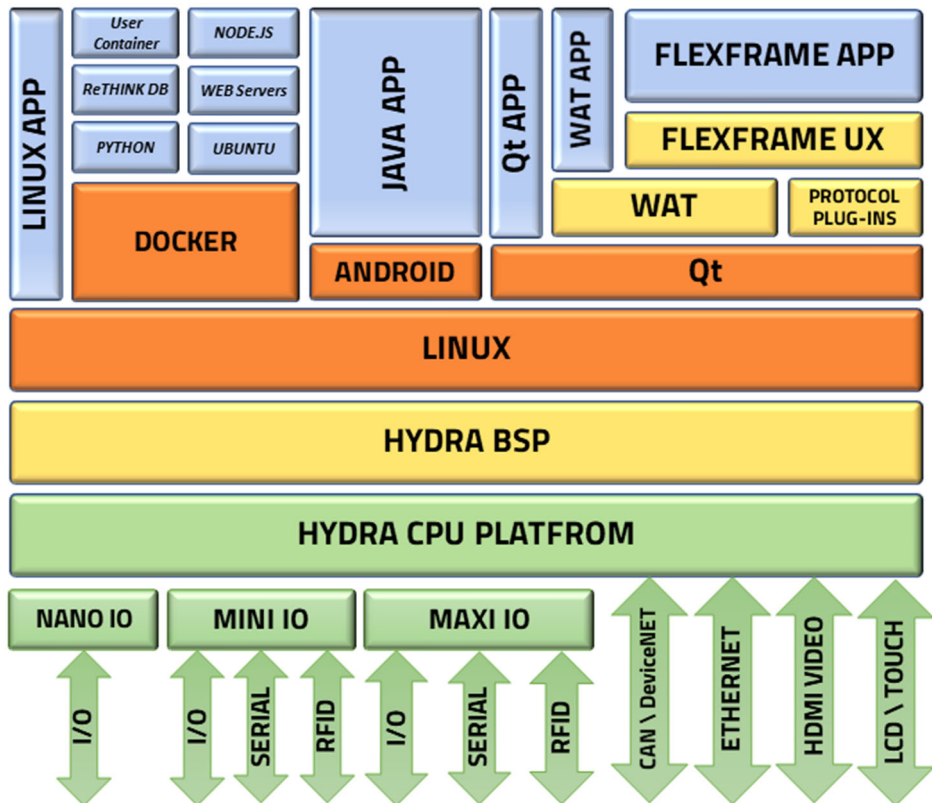
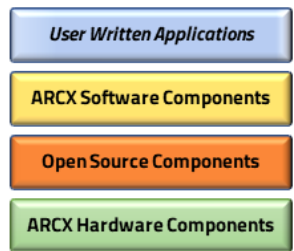


## ARCX System Architecture

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.



Simulate applications using the development environment.

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