

# Andon Watbox™

4022/4032 Series



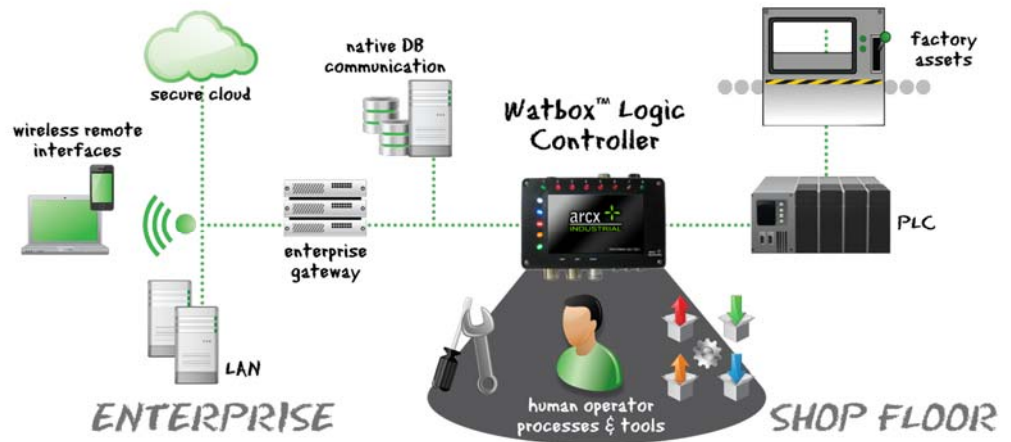
The Watbox™ ANDON controller is a high performance, flexible factory integration device that delivers a dual ANDON display system. This lightweight and low cost alternative supports multiple concurrent network interfaces, providing direct connectivity to factory floor process equipment and back office database servers without the use of additional software or gateways..

## APPLICATIONS

- Advanced materials handling and replenishment
- Operator/tool assist (poka yoke)
- ANDON Displays

## FEATURES & BENEFITS

- Supports concurrent network protocols including Ethernet/IP, DeviceNet, FL-net, TCP/IP, MODBUS and others
- Native communication with common database platforms
- Connect shop floor devices and business IT systems
- Remote management and troubleshooting via web browser on any device
- Bundled simulation software for pre-commission system design and testing
- Custom app development in JavaScript and XML using the Watbox API



**Watbox™ ANDON controllers** represent 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, FLnet, Modbus and other industry protocols, the Watbox™ 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 Watbox™ is easily programmed, using open standard languages, allowing for simple to sophisticated applications. Free or low-cost development tools allow for programming on the device directly, remotely, or on a PC with full simulation.

# Technical specifications



Model #	AXM-UP4022-00xx	AXM-UP4032-00xx
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>	
<b>USER INTERFACE</b>		
LCD Touchscreen	-	-
Video Out 1	<b>1080p60Hz</b>	<b>1080p60Hz</b>
Video Out 2	<b>1080p60Hz</b>	<b>1080p60Hz</b>
Video Out 3	<b>VGA</b>	<b>VGA</b>
Audio Out	<b>STEREO</b>	<b>STEREO</b>
<b>INPUT / OUTPUT</b>		
Form C Relay Outputs	<b>2</b>	<b>2</b>
<b>COMMUNICATION</b>		
RS-232 Ports	-	-
RS-232/485 Ports	<b>1 DSUB</b>	<b>1 DSUB</b>
Hi Speed Serial	-	-
PoE 802.3at	<b>YES</b>	<b>YES</b>
Ethernet 10/100Mb	<b>3 Port Switch</b>	<b>3 Port Switch</b>
Ethernet 10/100/1000	<b>1 (model -0030)</b>	<b>1 (model -0030)</b>
CANbus	-	-
Fieldbus Protocols	<b>EtherNet/IP</b>	<b>EtherNet/IP &amp; FLNet</b>
USB 2.0 Host	<b>3</b>	<b>3</b>
USB 2.0 OTG	-	-
WiFi (802.11)	-	-
Zigbee (802.15.4)	-	-
mPCIe	<b>opt</b>	<b>opt</b>
mSATA	<b>opt</b>	<b>opt</b>
<b>PHYSICAL</b>		
Power Barrel	<b>120Vac</b>	<b>120Vac</b>
Power Terminal	-	-
Power over Ethernet	<b>802.3at</b>	<b>802.3at</b>
Weight	<b>1.8 lbs</b>	<b>1.8 lbs</b>
Size	<b>12" x 6" x 1.7"</b>	
Temperature	Storage temperature: -40°C to +85°C Operating temperature: -5°C to +45°C Humidity: 40% non-condensing	
Vibration	<b>5-17Hz, 0.1" double amplitude displacement 17-640Hz, 1.5G acceleration peak to peak</b>	
Shock	<b>10G (11mS) peak-to-peak acceleration</b>	
Enclosure	<b>1U Rack mountable IP41 Anodized Powder coated mild steel</b>	
<b>NETWORK PROTOCOLS</b>	<b>herNET/IP Client&amp;Server*, CIP*, FLnet, WEBSockets, TCP/IP, ProfiNet, DeviceNet, CC-Link ProfiBus*, ModBus*, OPC UA Nano profile</b>	
<b>WARRANTY</b>	<b>1 Year Limited</b>	
<b>SOFTWARE</b>	<ul style="list-style-type: none"> <li>Linux 2.6.x</li> <li>WebKit under Qt/Embedded</li> <li>GStreamer for audio/video</li> <li>Real Time Automation CIP Stack</li> </ul>	

\* These Certified Protocol Stacks are provided by Real Time Automation

## Watbox™ management and development tools

- Remotely manage and troubleshoot via web browser on desktop or mobile device
- Run test configurations and simulations in the Watbox™ development environment.
- Use the Watbox™ API to build custom apps using JavaScript and XML.



Brackets available for direct mounting to VESA100 LCD Monitor.



## Ordering information

DESCRIPTION	PART
UP4022 Web Based Logic Controller w/ dual-head HDMI video outputs, 1 VGA Video Output, and Integrated 3 port Switch, Audio Line IN/OUT support for Radio Interface, 4 GPIO, 120Vac powered	AXM-UP4022-0000
UP4022 Web Based Logic Controller w/ dual-head HDMI video outputs, 1 VGA Video Output, and Integrated 3 port Switch, Audio Line IN/OUT support for Radio Interface, 4 GPIO, 120Vac powered, <b>HIGH PERF Heatsink and GigE port support</b>	AXM-UP4022-0030
UP4032 Web Based Logic Controller w/ dual-head HDMI video outputs, 1VGA Video Output, <b>FLnet</b> and Integrated 3 port Switch, Line IN/OUT, 120Vac powered	AXM-UP4032-0000
UP4032 Web Based Logic Controller w/ dual-head HDMI video outputs, 1 VGA Video output, <b>FLnet</b> and Integrated 3 port Switch, Line IN/OUT, 4 GPIO, 120Vac powered, <b>HIGH PERF Heatsink and GigE port support</b>	AXM-UP4032-0030
<b>ACCESORIES</b>	
ANDON Bracket Assembly with Chain Brackets	AXM-UP4002-B010
ANDON Bracket Assembly with Mounting Plate	AXM-UP4002-B011
UP4022 VESA Mounting Bracket KIT with Cable Strain Relief	AXM-UP4022-BK01
UP4022 19" Rack Mounting KIT with Cable Strain Relief	AXM-UP4022-BK02



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