



**Compact Embedded Controller
For Vision Applications**

ControlX- WRB Series



WIZER

CONTROLX-WRB series with WIZER software is our latest compact embedded controller which offers with high computing speed and flexibility to serve a wide range of vision applications across diverse industries.

WIZER vision software is a drag & drop concept, with a wide suite of inspection tools developed from Halcon library, and it is easy to configure one's own vision applications without any programming at all.

Model ⁽¹⁾	ControlX-WRB	
CPU	CPU Model	Intel® ATOM™ processor E3845, soldered on board
	CPU Type	64-bit x86, Quad Core 1.81GHz
	L2 Cache	2M-byte
	GPU	Support DirectX11, OpenGL3.0, OpenCL1.2
	RAM	4G-byte DDR3L-1333, soldered on board
	Storage	64G-byte eMMC5.1 Flash for OS, soldered on board 1x SDHC/SDXC SD card slot, support up to 2TB capacity
I/O Ports	Camera Ports	4x Gigabit Ethernet (Intel® I210 controller), support IEEE 802.3at (25.5W) PoE+
	USB	1x USB 3.0, 1x USB 2.0 1x internal USB 2.0 port (inside of casing, dedicated for encryption dongle)
	Display	1x HDMI, 1x VGA
	Serial Ports	1x RS232, 1x RS485 (isolated)
	Digital I/O	8x digital input ports, isolated 8x digital output ports, isolated Support 5V/12V/24V
Specialized Functions	LED Drivers	4x independent Constant current LED drivers Current adjustable from 0mA to 1,500mA by software anytime
	Watchdog	Hardware watchdog (1 to 256 seconds adjustable by software)
	Parameter Memory	32K-byte EEPROM, formatting disk has no effect on data stored in it
	Encryption	There are 2 inalterable IDs for user's encryption: eMMC serial number, FLASH Unique chip ID
	Temperature Monitoring	Embedded temperature sensor for internal temperature monitoring
	LED Indicators	3x red/green dual color LEDs: Power, 2 user programmable LEDs
	Remote Update	Remote update/reboot via Ethernet
OS (64 bit)	Windows 10 IoT Enterprise, Windows 10 IoT Core, Ubuntu 16.04	
Power Supply	20 to 30VDC, 24VDC recommended	
Consumption	12W max excluding the PoE cameras and LED boards	
Operation Condition⁽²⁾	Wide temperature -40°C to +80°C	
Storage Condition	-50°C to +100°C	
MTBF	350,000 hours	
Construction	DIN-rail mounting, rugged full metal casing, fanless	
Dimensions and weight	90 x 146 x 50 mm, 0.8 kg	
Certification	CE	