WEBICC MINI BOX

Industrial MINI BOX, Fanless Box PC, pre-installed with WEBICC SCADA software.
ARM-based PC, miniComputer

CE FCC

Features

- Grids Surface Design
- Aluminium housing
- Industrial Rugged Design
- Vibration & Shock Resistance
- Fanless heat-Dissipation
- Plug-n-Play
- Mini size
- Wall mount, DIN rail (optional)
- Anti Corrosion
- Fully Enclosed
- Temperature: 0°C + 50° C
- Pre-installed with Linux OS & WEBICC SCADA software

Introduction

WEBICC MINI BOX is designed for customers using Raspberry Pi (Rpi) single-board computers (SBCs) in unique IIoT applications. The new development board, Raspberry Pi 4 Model B, comes with a new 1.5 GHz quad-core processor, 4 GB LPDDR4 RAM memory, which will result in a much higher working speed. On the connectivity side, we have the new Bluetooth 5.0 standard, wireless LAN b/g/n/ac and a gigabit port. Also, the board has 2 microHDMI ports, so you can enjoy an extended work space and due to the fact that the board also has 4k support.

Size: 90*60*40mm

Features Hardware

- **Precise manufacturing, compact body, lightweight, and small footprint, excellent for limited space.**
- **Small-sized mini fanless PC with lower power consumption.**
- **Aluminum alloy material, and with the wire drawing process, the mini PC looks elegant.**
- **Includes support for operating systems such as Linux**
- **Support for Raspberry Pi-specific Linux is vital to enable industrial customers to benefit from the advantages of developing and deploying cloud computing technologies. A key element of today's cloud systems is virtualization and containerization. Virtualization provides a way to separate applications from each other more effectively than if they were hosted by the same operating system.**
- **Fanless PC structure and circulating heat dissipation system for long span-life**
- **High stability under continuous high loads operation in long-time production control in the automation industry.**
- **Mute design: this fanless mini PC runs without noise, offers comfortable operation environments for operators.**
- **Optional support wall-mounted, embedded mount, and fixed installation, it can be fixed on a wall or desk, which is space-saving and easy to install.**

Features Software

WEBICC is a SCADA/HMI software platform pre-installed on the WEBICC MINI BOX, standard version, 100% configurable, developed on web technologies for viewing industrial processes both locally and remotely. It uses a new technological concept that allows the editing and running of the SCADA software project. It is an intuitive configurable software that allows a RAD (Rapid Application Development) type development. Contains a suite of configurable modules specific to SCADA applications for:
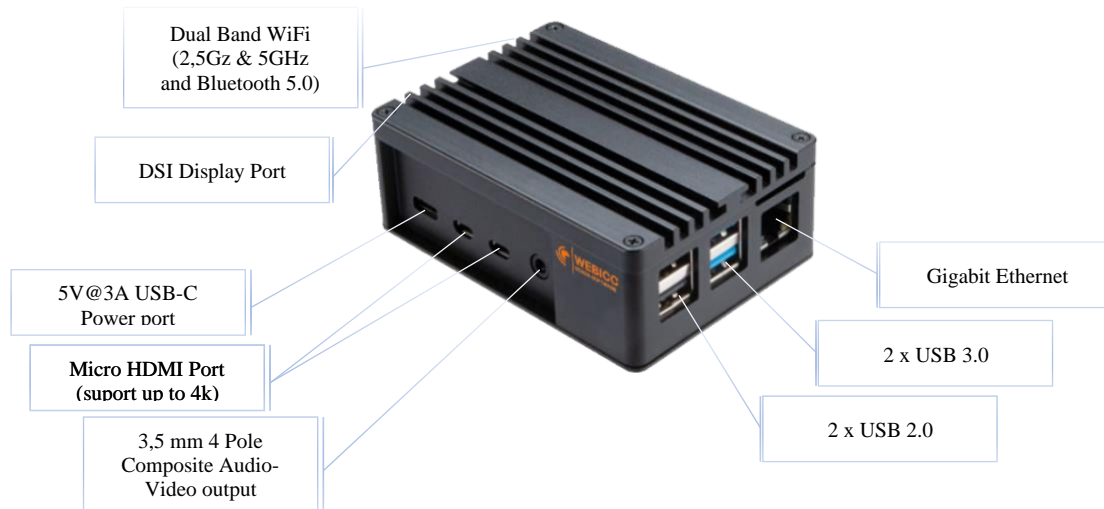**- communication with hardware equipment,**
- tag management,
- event alarms,
- historical data,
- synoptic screens,
- the role of users,
- report generation,
- programming particular functions through scripts,

- tag simulation,
- troubleshooting logs,
- web acces,
- and more
More information: https://webicc.eu

Interface Design

2*USB 2.0, 2 x USB 3.0, Gigabit Ethernet, Micro HDMI port, DSI Display Port.

Dual Band WiFi (2,5Gz & 5GHz and Bluetooth 5.0)

DSI Display Port

5V@3A USB-C Power port

Micro HDMI Port (suport up to 4k)

3,5 mm 4 Pole Composite Audio-Video output

Gigabit Ethernet

2 x USB 3.0

2 x USB 2.0

Product parameters

Specifications	**CPU**	Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
	Inner Memory	8GB LPDDR4 RAM
	WIFI	802 11b/g/n/ac wireless
	Bluetooth 5.0	Available
	Gigabit Ethernet Port	Available
	Ports	2 USB 3.0 ports; 2 USB 2.0 ports
	PoE	Capable (requires PoE HAT, sold separatley)
	Connectivity	Raspberry Pi standard 40 pin GPIO header
	Display	2 × micro-HDMI ports (up to 4kp60 supported)
	Camera port	2-lane MIPI CSI
	Video port	4-pole stereo audio and composite video port
	Power Consumption	15W (typical)
	Storage	Micro-SD card slot for loading operating system and data storage
	Power interface	5V DC via USB-C connector/5V DC via GPIO header
Temperature	Storage temperature	20-60 °C (-4 ~ 140 °F)
	Operating temperature	0 – 50 degrees C ambient

	Relative Humidity	10 ~ 95% RH @ 40 °C, non-condensing
	Ingress Protection	IP40
	OS	Linux
WEBICC SCADA/HMI standard software licence	Tags count	64, 128, 256, 512

Application

Application specific fanless industrial mini PC based on computer technology provides a software and hardware integration platform suitable for applications that require higher reliability, cost-effectiveness and higher power consumption. The fanless industrial mini PC has been widely used in network, communications, vehicle equipment, industrial automation, industrial robots and other industries.

Raspberry Pi4 Installation Guide