

# » KBox A-101 «



## Wallmount / Table Top

- » Intel® Atom™ D2550 1.86 GHz
- » Fieldbus Option
- » DC IN: 10,8V - 28,8V
- » 2.5" drive

## KBox A-101

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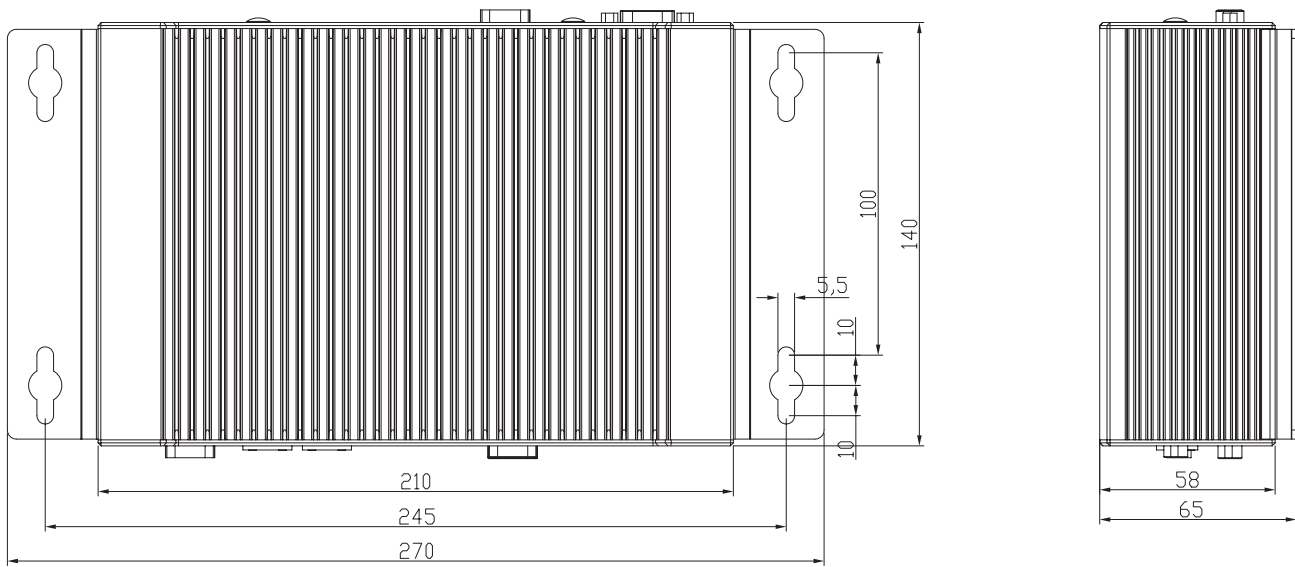
Kontron's KBox A-101 can be used for various applications including medical, gaming, process control and various embedded applications. The KBox A-101 is specifically designed for use within harsh and industrial environments. The fanless Box PC KBox A-101 features long life SBCs, based on the latest Intel® embedded low power Atom™ Processor D2550, ultra slim design and low power consumption. Due to

the extensive amount of on board I/Os and extensions like 2x GB LAN, 2x USB 2.0, 2x USB 3.0, 2x COM, 1x CAN SJA1000, expandability by MSata and Mini PCI\_e KBox A-101 enables connectivity for most applications. Long term availability, easy maintenance and serviceability protect your investment. These embedded Box PC save power and space and offer efficient performance ideal for factory automation.

#### Technical Information

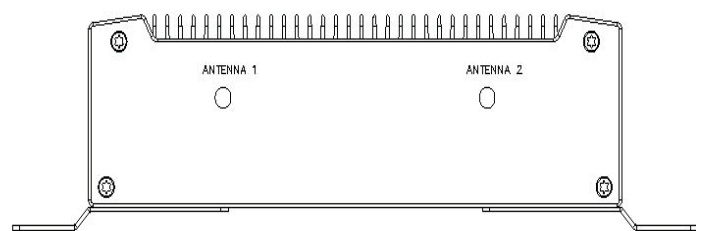
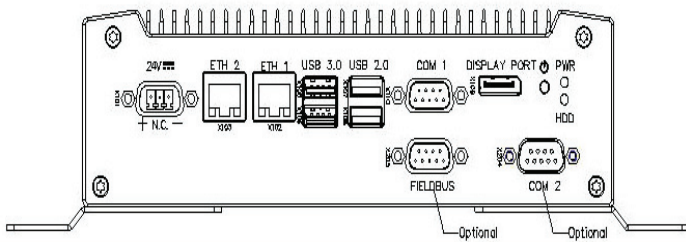
<b>Processor System</b>	CPU	Intel® Atom™ Dual Core N2600 1.6 GHz/D2550 1.86 GHz
	Max. Speed	Dual Core 1.6 GHz/1.86 GHz
	L2 Cache	1 MB
	System Chipset	Intel® Atom™ N2600/D2550 + Intel® NM10
<b>Memory</b>	BIOS	AMI EFI 16Mbit
	Technology	DDR3 1066 MHz (D2550), DDR3 800 MHz (N2600)
	Max. Capacity	4 GB
	Socket	1x 204-pin SO-DIMM
<b>Graphics</b>	Chipset	Intel® Atom™ N2600/D2550
	Display Port	Max. resolution 2560 x 1600
<b>Ethernet</b>	LAN1	10/100/1000 Mbps Intel® 82583V Ethernet controller, support Wake On Lan
	LAN2	10/100/1000 Mbps Intel® 82583V Ethernet controller, support Wake On Lan
<b>Audio</b>	Interface	Realtek ALC892, High Definition Audio, Line-out, Mic-in, Line-in
<b>IO Interface</b>	Serial Ports	1x RS232 optional 2nd COM ( RS232or 422 or 485)
<b>Others</b>	USB Interface	2x USB 3.0, 2x USB 2.0
	Digital IO	8-bit
	Watchdog timer	255 levels timer interval, setup by software
<b>Expansion</b>	Mini PCIe	1x full size MINI PCI_e
<b>Storage</b>	HDD	Supports one drive bay for SATA 2.5" HDD (Compatible with 12.5mm height HDD)
	SSD	Supports 2.5" SSD
<b>Software Support</b>	Microsoft Windows	Windows 7, Windows 7 Embedded, WinCE 7.0
	Linux	Ubuntu
<b>Power Requirement</b>	Power Type	AT/ATX
	Power Input Voltage	10,8 V DC to 28 VDC
	Power Adapter	AC to DC 24 V / 2,5 A (60W) optional
<b>Power Consumption</b>	Typical	16 Watt (with Intel® Atom™ D2550 at 1.8 GHz)
	Max.	19 Watt (with Intel® Atom™ D2550 at 1.8 GHz)
	Construction	Aluminum housing
<b>Mechanical</b>	Mounting	DIN RAIL Mounting, Desktop/Wall Mounting, Cabinet Mounting
	Dimensions (W x H x D)	210 x 65 x 140 mm (8.27" x 2.56" x 5.51")
	Weight	2.5 kg (5.51 lb)
	Operating Temperature	With extended temperature peripherals: -10°C to 60°C (14°F to 140°F) With HDD 0°C to 50°C (32°F to 122°F) with airflow
<b>Environment</b>	Storage Temperature	-40°C to 85°C ( -40 to 185° F)
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration During Operation	Vibration operational: IEC 60068-2-6 10 - 500 Hz, 2 G
	Shock During Operation	Schock operational: IEC 60068-2-27 half sine 11 ms 15 g
	EMC	CE/FCC Class A
	Safety Certifications	UL

Dimensions



Front Panel External I/O Mechanical Layout/Drawing

Rear Panel External I/O Mechanical Layout/Drawing



## Ordering Information

Part No.	Description
2-AOCR-2001	Intel® Atom™ D2550, 2x USB 2.0, 2x USB 3.0, 2x GB LAN, 1x DP, 24 V DCin, MINI PCI_e, 2.5" drive Bay, 4 GB RAM
2-AOCR-2002	Intel® Atom™ D2550, 2x USB 2.0, 2x USB 3.0, 2x GB LAN, 1x DP, 24 V DCin, MINI PCI_e, 2.5" drive Bay, Profibus, 2nd COM RS422, SSD 60 GB
<b>Options</b>	
AC to DC adapter Wall mount KIT Cabinet Mount KIT DIN Rail Mount KIT	
<b>Embedded OS</b>	
WEC 7 LINUX Fedora 17	

## CORPORATE OFFICES

**Europe, Middle East & Africa**

Oskar-von-Miller-Str. 1  
85386 Eching / Munich  
Germany

Tel.: +49 8165 77 777  
Fax: +49 8165 77 219  
info@kontron.com

**North America**

14118 Stowe Drive  
Poway, CA 92064-7147  
USA

Tel.: +1 888 294 4558  
Fax: +1 858 677 0898  
info@us.kontron.com

**Asia Pacific**

17 Building, Block #1, ABP.  
188 Southern West 4th Ring Road  
Beijing 100070, P.R.China

Tel.: +86 10 63751188  
Fax: +86 10 83682438  
info@kontron.cn