

---

# Datasheet

## **ADVANTECH**

UTX-3115

Industrial Embedded IoT Gateway / Embedded BOX PC

with Intel® Atom™ BayTrail Prozessor E3815/E3826

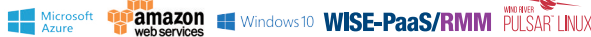
The information contained in this document has been carefully researched and is, to the best of our knowledge, accurate. However, we assume no liability for any product failures or damages, immediate or consequential, resulting from the use of the information provided herein. Our products are not intended for use in systems in which failures of product could result in personal injury. All trademarks mentioned herein are property of their respective owners. All specifications are subject to change without notice.

---

# UTX-3115

## Intel® Atom™ E3826/E3815 with Dual Giga LAN Fanless Compact Box PC

**NEW**



### Features

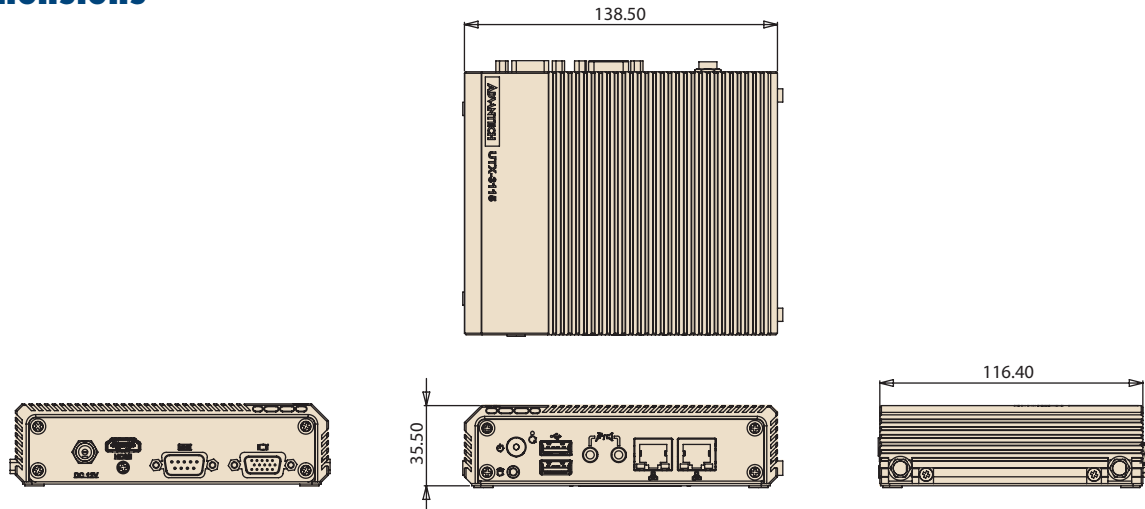
- Intel® Atom™ Dual Core E3826 1.46 GHz processor
- Palm-size form factor: 138.5(W) x 35.98(H) x 116.4(D) mm
- Supports 1 x COM port, 1 x HDMI, 1 x micro HDMI, 1 x VGA, 1 x USB3.0 and 2 x USB 2.0 ports, TPM onboard
- Built-in 1 x Half size Mini PCIe expansion slot (i.e.: Wi-Fi module) and 1 x Full size Mini PCIe expansion slot (i.e.: mSATA or 3G/4G module)
- Supports 1 2.5" HDD or SSD storage
- Wide operating temperature -20 ~ 60° C support
- Optional VESA / DIN-Rail / Wall mounts
- OS supports: Windows 10, Wind River® Pulsar™ Linux
- IoT SW integration: WISE-PaaS IoT software platform, AWS Greengrass, Microsoft IoT Edge

### Specifications

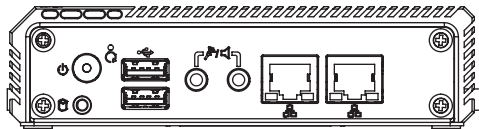
		UTX-3115
Processor System	CPU	Intel Atom Dual Core E3826 1.46GHz Single Core E3815 1.46GHz
	L2 Cache	1MB
	BIOS	AMI EFI 16 Mbit
Memory	Technology	DDR3L 1333/1066MHz, up to 8GB
	Socket	One x 204-pin SO-DIMM (Two 204pin SO-DIMM by BOM option)
Graphics	Chipset	Intel Atom E3826/E3815
	Interface	VGA: 1, max resolution: 2560 x 1600 @ 60Hz HDMI: 1, max resolution: 1920 x 1080P @ 60Hz Micro HDMI: 1, max resolution: 1920 x 1080P @ 60Hz
Ethernet	LAN	Support Dual 10/100/1000Mbps LAN LAN1: Intel I210AT LAN2: Realtek RTL8111G
I/O Interface	Serial Ports	1 x RS-232 with 5v/12v or 1x RS-422/485 4wires full duplex by BOM option
	USB Interface	1 USB3.0 port, 1 USB2.0 port and 1 micro USB2.0 port
	SATA	1 SATA interface, support HDD or SSD
	TPM	Infineon SLB9635 chip onboard. Support TPM1.2
Expansion	Mini PCIe	1 x Half-Size Mini PCIe support WIFI or 3G module 1 x Full-Size Mini PCIe support mSATA or 3G/LTE/WiFi module SIM holder default on Full Size Mini PCIe, can change to Half Size Mini PCIe by BOM option
Storage	2.5" HDD/SSD	1 x SATA II HDD bay
	mSATA	1 x full-size Mini PCIe slot
Software Support	Microsoft Windows	Windows 7, Windows 8, WES7, WES8, and Wind River® Pulsar™ Linux
Power Requirement	Power Input Voltage	12 V <sub>DC</sub> , ± 10%
	Power Adaptor	AC to DC, DC12V
Power Consumption	Typical	12 V @ 0.49 A
	Max	12 V @ 0.88 A
	Power Type	AT/ATX by BOM option
Mechanical	Construction	Aluminum
	Mounting	Support VESA/DIN Rail/Wall mounting (Optional)
	Dimensions (W x H x D)	138.5 x 35.98 x 116.4 mm (5.5" x 1.4" x 4.6")
Environmental and Certifications	Operating Temperature	-20 ~ 60° C: With extended temperature SSD/Memory/EWM-C118H 3G MODULE / EWM-W158F WIFI module (w/o RF certification)
		-20 ~ 45° C: With extended temperature SSD/Memory and Intel AC7260 WIFI module/Telite HE910G module (w/ RF certification)
	Storage Temperature	-40 ~ 60° C
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration During Operation	With SSD: 3Grms, 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	Shock During Operation	With SSD: 10G, IEC 60068-2-27, half sine, 11ms duration
	EMC	CE/FCC Class B (RF), PTCRB, GCF with Intel AC7260 WIFI Card and Telite HE910G 3G module) CE/FCC Class B (w/o RF) with UTX-3115 Bare bone only
Safety Certifications	CB, UL, CCC, BSMI, KCC	

## Dimensions

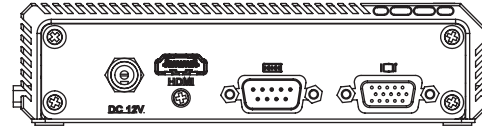
Unit: mm



## Front Panel External I/O Mechanical Layout/Drawing



## Rear Panel External I/O Mechanical Layout/Drawing



## Ordering Information

P/N	Description	CPU	CRT/HDMI/uHDMI	G.LAN	COM	SATAII	USB3.0/2.0	Antenna	Antenna Post	WindRiver IDP
UTX-3115B-S6A2E	Barebone	E3826	1/1/1	2	1	1	1/2	0	2 +2*	No (w/o OS)
UTX-3115SA4-S6A2E	System w/4antenna, 2G RAM & 32G SSD	E3826	1/1/1	2	1	1	1/2	4	2 +2*	No (w/o OS)
UTX-3115SA4P-S6A2E	System w/4antenna, 2G RAM, 32G SSD, IDP	E3826	1/1/1	2	1	1	1/2	4	2 +2*	Yes (IDP2.0)
UTX-3115SA4L-S6A2E	System w/4antenna, 2G RAM & 32G SSD	E3815	1/1/1	2	1	1	1/2	4	2 +2*	No (w/o OS)
UTX-3115FS-S6A2E	Emb.sys.UTX-3115.2G RAM.SSD.AC7260 module.HE910G module.4Antenna.	E3826	1/1/1	2	1	1	1/2	4	2+2*	Yes (IDP2.0)
UTX3115SA4P1-S6A2E	System w/4antenna, 2G RAM& 32G SSD, IDP3.1	E3826	1/1/1	2	1	1	1/2	4	2+2*	Yes (IDP3.1 Pro)
UTX-3115FSP1-S6A2E	System w/4antenna, 2G RAM& 32G SSD.AC7260 WIFI module.HE910G 3G module.4antenna.IDP3.1	E3826	1/1/1	2	1	1	1/2	4	2+2*	Yes (IDP3.1 Pro)

Note: \*Two antenna post for Wifi module & two post for 3G/LTE

## Packing List

Part Number	Description
UTX-3115	1 x UTX-3115 unit
96PSA-A36W12W7	36W 12V 3A AC/DC Power Adaptor
1930000198	2x Screw M2x4L for miniPCIE module use

## Optional Items

Part Number	Description
1700001524	Power Cable 3-pin 180cm, USA type (For power adapter 96PSA-A36W12W7)
170203183C	Power Cable 3-pin 180cm, Europe type (For power adapter 96PSA-A36W12W7)
170203180A	Power Cable 3-pin 180cm, UK type (For power adapter 96PSA-A36W12W7)
1700008921	Power Cable 3-pin PSE Mark 183cm (For power adapter 96PSA-A36W12W7)
1702002600-01	Power cable 3-pin 183 cm, USA type (For power adapter 1757004522-01)
1700018705	Power cable 3-pin 183 cm, Europe type (For power adapter 1757004522-01)
1700018704	Power cable 3-pin 183 cm, UK type (For power adapter 1757004522-01)
1700000237-01	Power cable 3-pin 183 cm, PSE type (For power adapter 1757004522-01)
AIMB-OBRK-VM01E	UTX-3115 Vesa Mount bracket kit
AIMB-OBRK-WM01E	UTX-3115 Wallmount bracket kit
AIMB-OBRK-DR01E	UTX-3115 DIN rail bracket kit
EWM-C118HD01E	2-band Cellular Module, SIM holder, half-size
EWM-W158F01E	Advantech 802.11abgn 2T2R, Wide-Temp Module

Our company network supports you worldwide with offices in Germany, Austria, Switzerland, Great Britain and the USA. For more information please contact:

## Headquarters

### Germany



#### FORTEC Elektronik AG

Lechwiesenstr. 9  
86899 Landsberg am Lech

Phone: +49 8191 91172-0  
E-Mail: [sales@fortecag.de](mailto:sales@fortecag.de)  
Internet: [www.fortecag.de](http://www.fortecag.de)

## Fortec Group Members

### Austria



#### FORTEC Elektronik AG

##### Office Vienna

Nuschinggasse 12  
1230 Wien

Phone: +43 1 8673492-0  
E-Mail: [office@fortec.at](mailto:office@fortec.at)  
Internet: [www.fortec.at](http://www.fortec.at)

### Germany



#### Distec GmbH

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894363-0  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)

### Switzerland



#### ALTRAC AG

Bahnhofstraße 3  
5436 Würenlos

Phone: +41 44 7446111  
E-Mail: [info@altrac.ch](mailto:info@altrac.ch)  
Internet: [www.altrac.ch](http://www.altrac.ch)

### United Kingdom



#### Display Technology Ltd.

5 The Oaks Business Village  
Revenge Road, Lordswood  
Chatham, Kent, ME5 8LF

Phone: +44 1634 672755  
E-Mail: [info@displaytechnology.co.uk](mailto:info@displaytechnology.co.uk)  
Internet: [www.displaytechnology.co.uk](http://www.displaytechnology.co.uk)

### USA



#### Apollo Display Technologies, Corp.

87 Raynor Avenue,  
Unit 1 Ronkonkoma,  
NY 11779

Phone: +1 631 5804360  
E-Mail: [info@apolloDisplays.com](mailto:info@apolloDisplays.com)  
Internet: [www.apolloDisplays.com](http://www.apolloDisplays.com)