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# Datasheet

## **ADVANTECH**

UTX-3115

Industrial Embedded IoT Gateway / Embedded BOX PC

with Intel® Atom™ BayTrail Prozessor E3815/E3826

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# UTX-3115

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

**NEW**



### Features

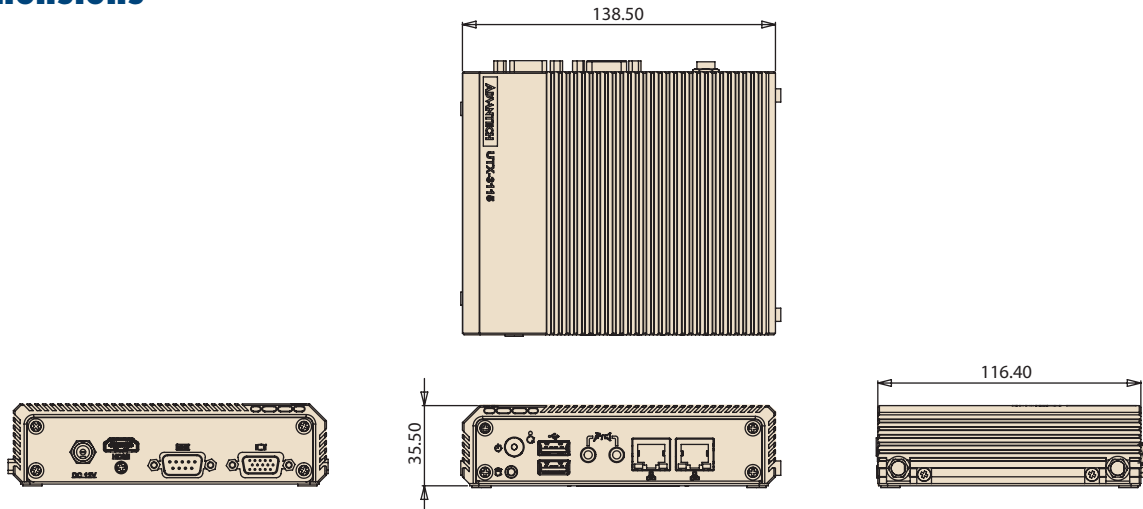
- Intel® Atom™ Dual Core E3826 1.46 GHz processor
- Palm-size form factor: 138.5(W) x 35.98(H) x 116.4(D) mm
- Supports 1 x COM port, 1 x HDMI, 1 x micro HDMI, 1 x VGA, 1 x USB3.0 and 2 x USB 2.0 ports, TPM onboard
- Built-in 1 x Half size Mini PCIe expansion slot (i.e.: Wi-Fi module) and 1 x Full size 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

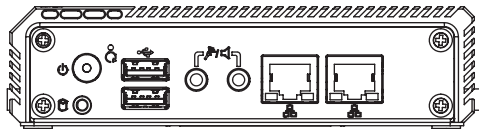
		UTX-3115
Processor System	CPU	Intel Atom Dual Core E3826 1.46GHz Single Core E3815 1.46GHz
	L2 Cache	1MB
	BIOS	AMI EFI 16 Mbit
Memory	Technology	DDR3L 1333/1066MHz, up to 8GB
	Socket	One x 204-pin SO-DIMM (Two 204pin SO-DIMM by BOM option)
Graphics	Chipset	Intel Atom E3826/E3815
	Interface	VGA: 1, max 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

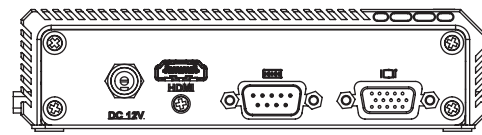
Unit: mm



## 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)