
Datasheet

ADVANTECH

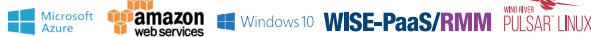
UTX-3117

Embedded BOX PC with Intel® Apollo Lake Prozessor

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UTX-3117

Intel Atom platform with Dual GbE LAN Fanless Compact Box



Features

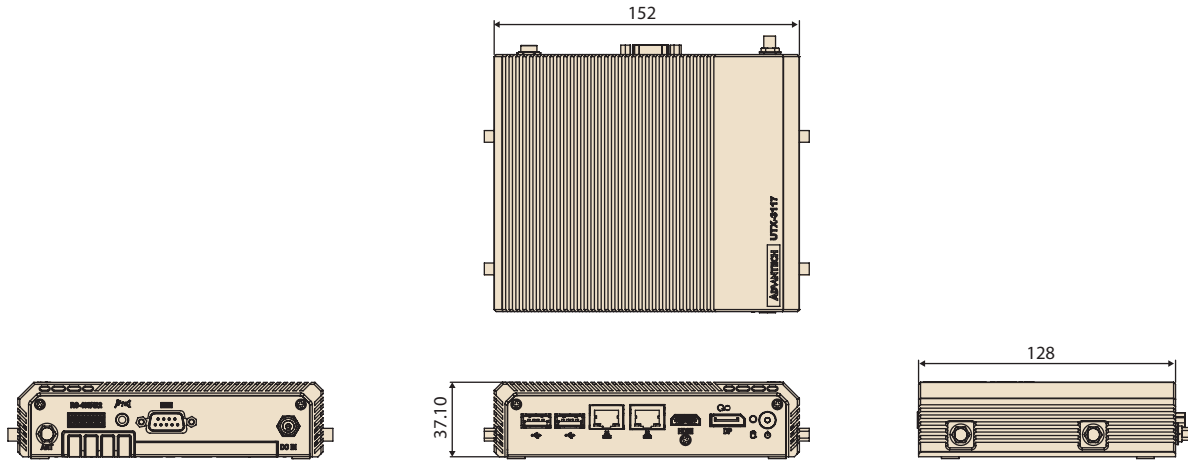
- Intel® Apollo Lake E3900 series & N series Processor
- Palm-size form factor: 128 (L) x 152 (W) x 37 mm(H)
- Supports 2 x COM port, 1 x HDMI, 1 x Display Port, 2 x USB3.0, TPM 2.0 and DCIN 12~24V
- Built-in 1x M.2 expansion slot (i.e.: Wi-Fi module), 1 x Half size Mini PCIe expansion slot (i.e.: Zigbee, module or mSATA) and 1 x Full size Mini PCIe expansion slot (i.e.: 3G/LTE module) with 5Antennas
- Supports 1x 2.5" HDD or SSD storage
- Wide operating temperature -20 ~ 60 °C support (With E3900 Series SoC)
- Complete certification for EMC and Safety
- OS supports: Windows 10, WindRiver Pulsar
- IoT SW integration: WISE-PaaS IoT software platform, AWS Greengrass, Microsoft IoT Edge

Specifications

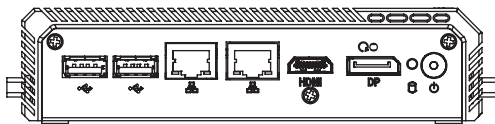
		UTX-3117
Processor System	CPU	Intel Apollo Lake E3900 & N series Processor
	L2 Cache	2MB
	BIOS	AMI EFI 16 Mbit
Memory	Technology	Dual channel DDR3L 1867MHz, up to 8GB
	Socket	Two 204-pin SO-DIMM
Graphics	Chipset	Intel Apollo Lake E3900 Series SoC Intel Apollo Lake N series SoC
	Interface	HDMI: 1, max resolution up to 3840 x 2160 @ 30Hz DP1.2: 1, max resolution up to 4096 x 2160 @ 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 and 1x RS-422/485 full duplex with Phoenix connector
	USB Interface	2 USB3.0 port
	SATA	1 SATA interface, support SSD
	TPM	Infineon SLB9665 chip onboard. Support TPM2.0
Expansion	Mini PCIe	1 x Half-Size Mini PCIe support Sub1G module (i.e.: Zigbee) or mSATA 1 x Full-Size Mini PCIe support 3G/LTE module with SIM holder 1 x M.2 E key support Wi-Fi module
Storage	2.5" SSD	1 x SATA II SSD bay
	mSATA	1, co-lay with H/S miniPCIe slot
Software Support	Microsoft Windows	Windows 10, Yocto, Wind River® Pulsar™ Linux and WISE-PaaS
Power Requirement	Power Input Voltage	12 ~ 24 V
	Power Adaptor	AC to DC, DC12 ~ 24 V
Power Consumption	Typical	12V * 0.35 (A), 4.2W
	Max	12V * 0.61 (A), 7.32W
	Power Type	AT/ATX by Jumper option
Mechanical	Construction	Aluminum
	Mounting	Support VESA/DIN Rail/Wall Mount (Optional)
	Dimensions (W x H x D)	Chassis: 128(L) x 152 (W) x 37 mm(H) Motherboard: 123.3 x 129 mm
Environmental and Certifications	Operating Temperature	E3900 Series SoC SKU -20 ~ 60 °C: with RF modules (under 0.7m/s air flow) N series SoC SKU -0 ~ 55 °C: with RF modules (under 0.7m/s air flow)
	Storage Temperature	-40 ~ 85 °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: 30G, IEC 60068-2-27, half sine, 11ms duration
	EMC	CE/FCC Class B
Safety Certifications	CB, UL, CCC, BSMI	

Dimensions

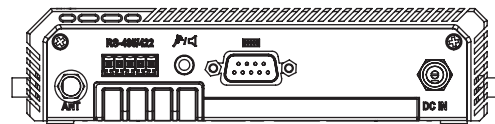
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

P/N	CPU	SSD	Memory	WiFi	3G/LTE	Other RF	Antenna	OS
UTX-3117FS-S6A1N	PENTIUM N4200, 4C 2M 1.1GHz	32GB	4GB X 1	NA	NA	NA	4	NA
UTX-3117FS-S6A2N	CELERON N3350 2C 2M 1.1GHz	32GB	4GB X 1	NA	NA	NA	4	NA
UTX-3117FS-S6A2E	Atom X5-E3940 4C 2M 1.6GHz	32GB	4GB X 1	NA	NA	NA	4	NA
UTX-3117FSW-S6A1N	PENTIUM N4200, 4C 2M 1.1GHz	32GB	4GB X 1	NA	NA	NA	4	WIN 10
UTX-3117FSP-S6A2N	CELERON N3350 2C 2M 1.1GHz	32GB	4GB X 1	NA	NA	NA	4	Pulsar 8
UTX-3117C-S6A2N	CELERON N3350 2C 2M 1.1GHz	NA	NA	NA	NA	NA	NA	NA
UTX-3117C-S6A2E	Atom X5-E3940 4C 2M 1.6GHz	NA	NA	NA	NA	NA	NA	NA
UTX-3117C-S6A1N	PENTIUM N4200, 4C 2M 1.1GHz	NA	NA	NA	NA	NA	NA	NA
UTX-3117SA4-S6A1N	PENTIUM N4200, 4C 2M 1.1GHz	NA	4GB X 1	NA	NA	NA	4	NA
UTX-3117SA4-S6A2N	CELERON N3350 2C 2M 1.1GHz	NA	4GB X 1	NA	NA	NA	4	NA
UTX-3117SA4-S6A2E	Atom X5-E3940 4C 2M 1.6GHz	NA	4GB X 1	NA	NA	NA	4	NA

Packing List

Part Number	Description
UTX-3117	1 x UTX-3117 unit
TBD	1 x Traditional Chinese user manual for CCC
TBD	1 x Startup manual
96PSA-A36W12W7	36W 12V 3A AC/DC Power Adaptor
1930000198	2x Screw M2x4L for miniPCIE module use
1933030500	1xScrew M2x5L for M.2 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)
AIMB-0BRK-VM05E	UTX-3117 Vesa Mount bracket kit
AIMB-0BRK-WM03E	UTX-3117 Wall Mount bracket kit
AIMB-0BRK-DR05E	UTX-3117 DIN Rail bracket kit
1750008401-01	Antenna SMA(F)/MHF 12cm IP65 A9703219 for 3G/LTE
1750008402-01	Antenna R/P SMA(M) to MHF 14cm IP65 A97 for WSN
1750008403-01	NGFF R/P SMA (M) to MHF 12cm IP65 A9703
1750008424-01	LTE Antenna Dipole L=148.5mm 4dBi A9703 for LTE
1750008671-01	Dipole Ant.SMA/M-R 2.4/5G 2.5/4dBi BLK for WiFi

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
Internet: 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
Internet: www.fortec.at

Germany



Distec GmbH

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894363-0
E-Mail: info@distec.de
Internet: www.distec.de

Switzerland



ALTRAC AG

Bahnhofstraße 3
5436 Würenlos

Phone: +41 44 7446111
E-Mail: info@altrac.ch
Internet: 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
Internet: 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
Internet: www.apolloDisplays.com