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advantech Intel Atom platform with Dual GbE LAN Fanless Compact Box User Manual

Contents

User Manual

UTX-3117

Advantech Intel Atom platform with Dual GbE LAN Fanless Compact Box
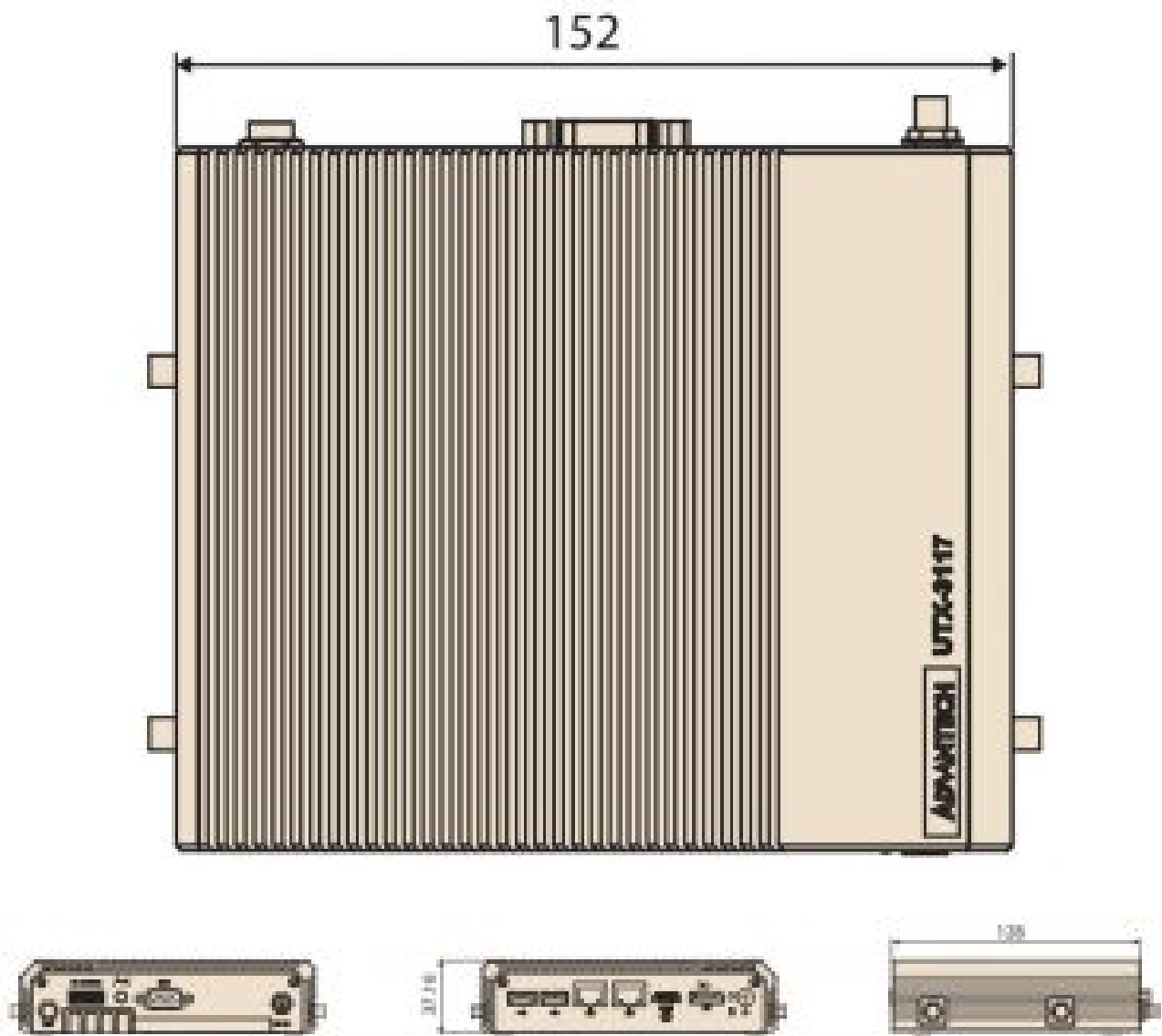

Features

- ƒ Intel® Apollo Lake E3900 series & N series Processor
- ƒ 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 1 x M.2 2230 slot, 1 x Half size Mini PCIe expansion slot and 1 x Full size Mini PCIe expansion slot
- Supports 1 x 2.5″ SATA storage
- Wide operating temperature -20 ~ 60 °C support (With E3900 Series SoC)
- Complete certification for EMC and Safety
- OS supports: Windows 10, Ubuntu
- IoT SW integration: WISE-PaaS IoT software platform, AWS Greengrass, Microsoft IoT Edge
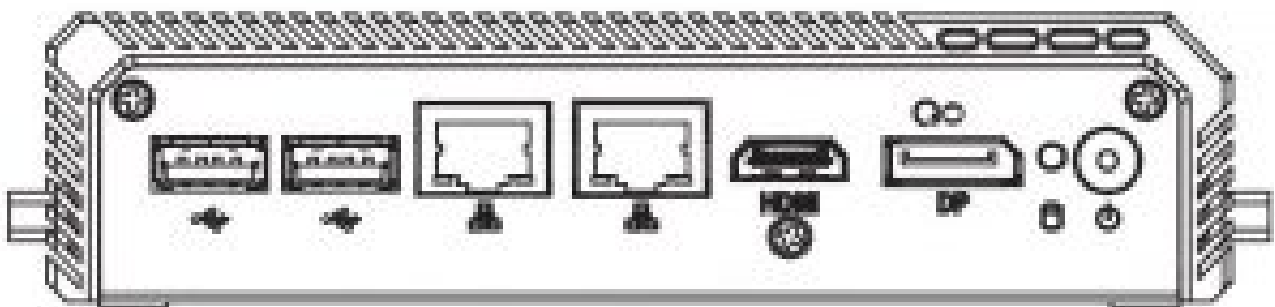
Specifications

		ITG-2117
Processor System	CPU	Intel Apollo Lake E3900-S/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 RTL8111
I/O Interface	Serial Ports	1 x RS-232 with 5V/12V and 1 x 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 (PCIe Gen2 x1, SATA3, USB2.0 signal co-lay); 1 x Full-Size Mini PCIe (USB2.0 signal with SIM holder to support LTE module); 1 x M.2 E key (PCIe Gen2x1, USB2.0 co-lay)
Storage	2.5" SSD	1 x SATA 3 SSD bay
	mSATA	1 co-lay with HS mini-PCIE slot
Software Support	Microsoft Windows	Windows 10, Ubuntu and WSE-Prof
Power Requirements	Power Input Voltage	12 - 24V
	Power Adaptor	AC to DC, DC12 - 24V

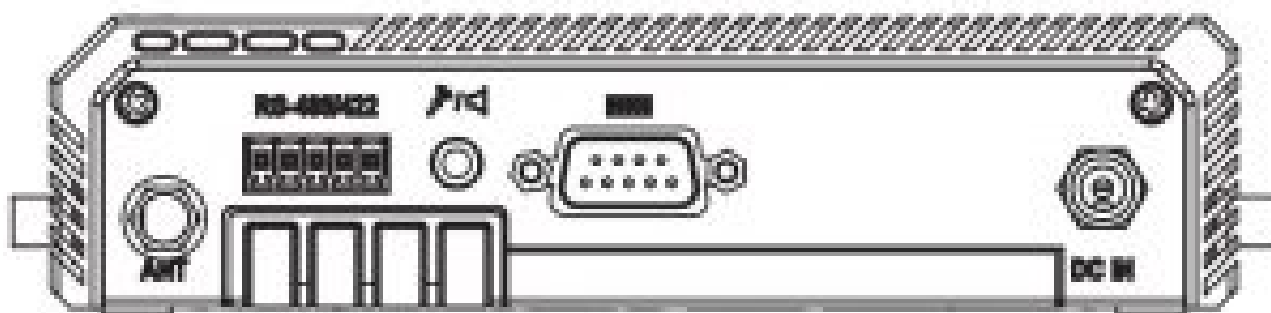|		
Power Consumption	Typical	12V * 0.35 (A), 4.2W
	Max	12V * 0.61 (A), 7.32W
	Power Type	AT/ATX by jumper option
Mechanical	Construction	Aluminum
	Mounting	Support VESA/DIN Rail/Wall Mount (Optional)
	Dimensions (W x H x D)	Chassis: 128(L) x 152(W) x 37 mm(H); Motherboard: 120 x 120 mm
Environmental and Certifications	Operating Temperature	E3900 Series SoC SKU -30 ~ 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, IEC60068-2-64, random, 5 ~ 500Hz, 1 hr/axis
	Shock During Operation	With SSD: 50G, IEC 60068-2-27, half sine, 11ms duration
	EMC	CE/FCC Class B
	Safety Certifications	CE/UL

Dimensions

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-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

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

Embedded OS

OS/API	Part No.	Descriptio
Win10	20706WX6ES0001	img W10 16EL UTX-3117 64b 1701 ENU
Ubuntu 20.04	360SU117000101	Ubuntu V20.04 image of UTX-3117

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
1750008818-01	Dipole Ant. LTE SAM/M BLK OD10x133.5mm

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Intel Atom platform with Dual GbE LAN Fanless Compact Box, UTX-3117

References

- **A** **Advantech Co-Creating the Future of the IoT World**