

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

The diagram shows the rear panel of the HP DesignJet 1100 printer. From left to right, the components are: a power button, two USB ports, two FireWire ports, an Ethernet port, a Hi-Fi audio input, a Display Port (DP), and a power jack. The power button is labeled with a power symbol. The USB ports are labeled with the USB symbol. The FireWire ports are labeled with the FireWire symbol. The Ethernet port is labeled with the Ethernet symbol. The Hi-Fi audio input is labeled with the Hi-Fi symbol. The Display Port is labeled with the DP symbol. The power jack is labeled with the power symbol.

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

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

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-OBRK-VM05E	UTX-3117 Vesa Mount bracket kit
AIMB-OBRK-VM03E	UTX-3117 Wall Mount bracket kit
AIMB-OBRK-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