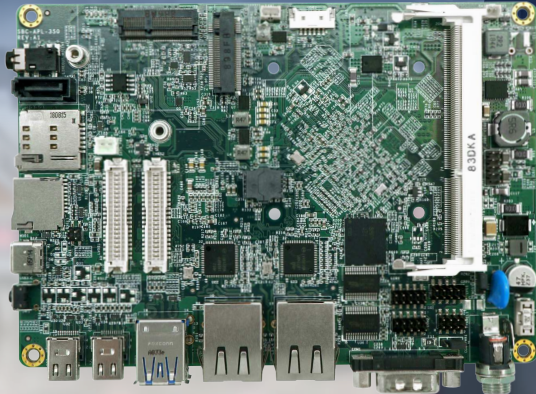


SBC-APL-350



- SBC-APL-350 is a fanless, versatile single board computer based on a low power Intel Atom x5-E3930 or x5-E3950 processor.
- SBC-APL-350 brings new capabilities to your next-gen smart designs, as well as other compute-intensive use cases, such as industrial controls, building automation, machine vision, imaging and scanning.
- Supporting up to three independent displays, including 4K Ultra HD on two external displays.
- Delivers high-level video performance and intense media processing capability.

Specifications



Core System

Processor	Atom x5-E3930 (2x 1.8GHz) Atom x7-E3950 (4x 2.0GHz)
Architecture	x86 (Apollo Lake)
PMIC	IDT P91E0
BIOS	UEFI AMI BIOS
Memory	SO-DIMM DDR3L
Storage	eMMC (32GB Default)

Connectivity

Network LAN	2x Intel i210 Gigabit LAN
-------------	---------------------------

Expansion Interfaces

Expansion Slots	2x M.2 slot
Internal Display	1x dual channel LVDS + TOUCH
Expansion Headers	GPIO RS232 SATA + SATA Power USB
Others	Fan Power LED / SATA LED RST

External Connectors

External Display	2x miniDP
Audio Connectors	CTIA compliant 3.5mm audio jack
Network	2x RJ45
USB	1x USB 3.0 OTG (Type-C) 2x USB 3.0 Host
Serial	1x RS-232
Buttons	1x Power
SIM Cardslot	1x Micro-SIM Card slot
SD Cardslot	1x MicroSD Card slot

Video

Video Decode	4Kp60 H.264
Video Encode	4Kp60 H.264

Audio

Audio Codec	Realtek ALC662
-------------	----------------

Sensors

RTC	Integrated in SoC with backup Battery
-----	--

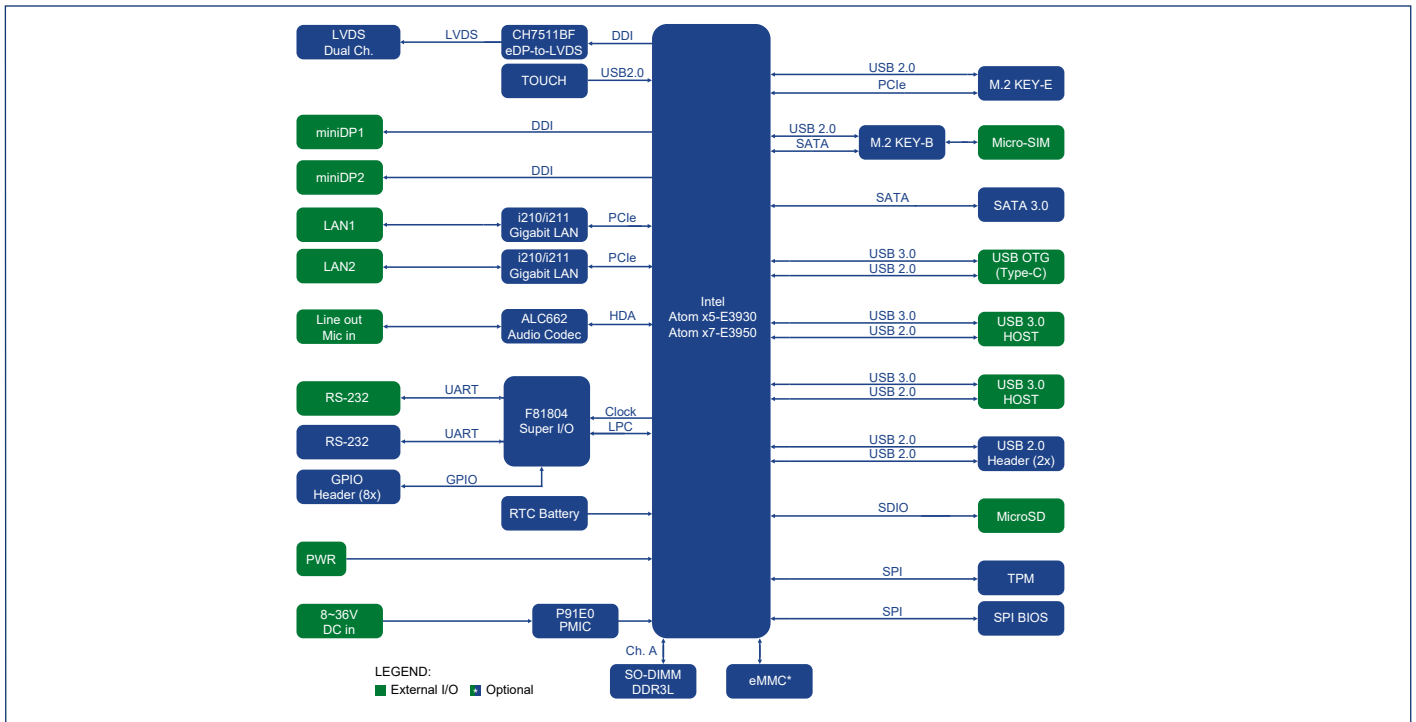
Power Specifications

Power Input	9-36V DC
Power Connector	5.5/2.1mm barrel jack (screw type)
Power Consumption	Depending on Configuration

Operation Systems

Standard Support	Linux Windows 10
------------------	---------------------

Block Diagram



Environmental and Mechanical

Dimensions	147 (W) x 102 (H) x 20 (D) mm
Form Factor	3.5"
Weight	140 grams
Temperature	Industrial: -40° to +70°C
Relative Humidity	10 to 90 %
MTBF	>100 000 Hours
Shock	30G half-sine 11 ms duration
Vibration	3 Grms random 5-500Hz hr/axis
Certification	Compliant with CE / FCC / RoHS / REACH directives

Ordering Information

SBCAPL350-Exxxx-xxx-xxx-TI-xxxx

	Code	Description
Processor	E3930	Intel Atom x5-E3930 (2x 1.8GHz)
	E3950	Intel Atom x7-E3950 (4x 2.0GHz)
Memory	-	-
	R40	4GB SO-DIMM DDR3L
Storage eMMC	-	-
	E32	eMMC 32GB (default)
	E64	eMMC 64GB
Temperature	TI	Industrial Temperature range (-40° to +70°C)
Custom ID	XXXX	Custom Part number ID for customized Software loader and special component (BOM)

Dimensions

(units in mm)

