

Motherboard

EMB-APL3

Mini-ITX Embedded Motherboard with Intel® N3350(DC) Processor



Order information

- **EMB-APL3-A10-3350-F1-LV**
mini-ITX.N3350_F1.2DDR3L,VGA,HDMI.2LAN.4USB3,6U
SB2.1SATA.2xM.2,PCIEx1.12VDC.R1.01

Optional Accessories

- **1709100201**
USB 2.0 Cable (10P, 200MM, p=2.00mm, w/bracket)
- **1700100491**
USB 2.0 Cable (2 x 5P, 490mm, p=2.00mm)
- **1709050201**
USB 2.0 Cable (5P, 220mm, p=2.00mm)
- **1701100206**
COM Cable (200MM, p=2.00mm)
- **125530060Z**
(TF)Power Adapter.DC.100/240V.12V.5A.60W.180D.W/
Lock.FSP.FSP060-DHAN3/9NA0608078

Features

- DDR3L 1333/1600/1867 MHz SODIMM x 2, Up to 8 GB
- Three Independent Display: VGA x 1, HDMI/DP x 1, LVDS/eDP x 1
- Realtek 8111H, Gigabit Ethernet x 2
- COM Port x 6 (RS-232 x 5, RS-232/422/485 x 1)
- M.2 Slot (M-key) x 1, M.2 Slot(E-key) x 1, PCIe2.0 [x1] x 1
- 12V DC Power Input
- Low Profile

Specifications

SYSTEM

Processor	N3350, (2C @ 2.40GHz CPU N4200, (4C @ 2.50GHz CPU)
Chipset	Intergrated into SoC
Memory	DDR3L 1333/1600/1867MHz SODIMM x 2, max. 8GB, non-ECC, un-buffered memory
I/O Chipset	NCT6116D
Ethernet	Realtek® PCIe Gb LAN 8111H x 2
Expansion Slots	PCIe2.0 [x1] x 1 , M.2 M key (22 x 42mm) x 1, for SATA M.2 E Key (22 x 30mm) x 1, for PCIe
BIOS	128Mbit Flash ROM x 1, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/System, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis
WatchDog Timer	1~255 steps by software program
Smart Fan Control	Chassis Fan (Fanless)
Wake On LAN/ PXE	Yes (WOL / PXE)
Power State	S3, S4, S5

GRAPHICS

Graphics Chipset	Intel® HD Graphics
Graphics Multi Display	Three Independent Display
VGA	Up to 1920 x 1200 @ 60 Hz
HDMI	Up to 3840 x 2160 @30 Hz(HDMI 1.4b)
Display Port	Up to 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz (Colay with VGA)
LVDS	Up to 1920 x 1200 @60Hz, dual-channel 18/24 bit (via PS8625) (colay with eDP)
eDP	Up to 4096 x 2160 @60Hz
Backlight Control	Voltage/PWM

ENVIRONMENT & POWER & ME

Power Requirement	12V DC jack (screw type) 4-pin internal power connector
Operation Temperature	32°F ~140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~185°F (-40°C ~85°C)
Operation Humidity	0%~90%RH, non-condensing
Certificate	CE & FCC
Form Factor	Mini-ITX: 6.7" x 6.7" (170mm x 170mm)
Weight	1.1 lb (0.5 Kg)
MTBF (Hours)	230,820

REAR PANEL I/O PORTS

USB	USB 3.2 Gen 1 (5 Gbps) x 4
Display I/O	VGA/DP x 1, HDMI x 1
Audio I/O	Audio I/O
LAN I/O	LAN (RJ-45) port x 2
Others	DC power jack x 1