

MBox-V-E39

x86 Family



Ultra compact BoxPC platform for embedded PC applications and IoT edge gateways.

HIGHLIGHTS

- ▶ Intel Atom® E3900 series (Apollo Lake-I)
- ▶ Up to 8 GB DDR3L
- ▶ Optimized for ultra low power
- ▶ High-Speed IO such as 2x Gb ETH, 2x USB (3.0)
- ▶ 2x Mini DisplayPort to connect two monitors
- ▶ TPM 1.2/2.0 (option)
- ▶ Prepared for wireless connectivity
- ▶ Extended temperature support (option)
- ▶ Highly customizable sheet metal chassis
- ▶ Individual configurations and ODM branding

TECHNICAL SPECIFICATION

CPU	Intel Atom® x5 / x7 E3900 (Apollo Lake-I) x5-E3930 2x 1.3 / 1.8 GHz, 6.5 W x5-E3940 4x 1.6 / 1.8 GHz, 9.5 W x7-E3950 4x 1.6 / 2.0 GHz, 12 W
Memory	2 / 4 GB DDR3L (8 GB on request)
Graphics interfaces	2x Mini DisplayPort (1x DP++ with up to 4K UHD and 1x DP 1.1)
Interfaces	2x Gbit Ethernet (Intel® i210) 2x USB 3.0
Wireless and fieldbus communication (options)	On request
Internal extension sockets	1x Mini PCIe full-size (PCIe & USB), with micro SIM socket 1x Mini PCIe half-size (PCIe & USB)
Internal mass storage	1x mSATA full-size (16 – 512 GB, others on request) 1x Micro SD card socket
Security components	TPM 1.2/2.0 (option)

Power supply	Voltage: 9 V – 36 V Connector type: Phoenix MC1,5/2-G-3,5 Power: typ. 3 – 15 W/max. 30 W Battery: CR2032 (replaceable)
Environment	Passive cooled (no fan) Standard temperature: 0°C...+50/60°C Extended temperature: -20°C...+50/60°C (see ordering information)
Form factor/ dimensions	Integrated hardware kit: 100 × 100 × 23 mm Chassis: 103 × 110 × 40 mm
Operating Systems	Windows 10 (Standard and Embedded/IoT) Linux (e.g. Ubuntu) Others on request Custom specific software images can be pre-installed.

IO CONNECTORS MBOX-V-E39



ORDERING INFORMATION

MBox-V-E3950-AA	Intel Atom® x7-E3950 (4x 1.6 / 2.0 GHz, 2 MB Cache, 12 W TDP), 4 GB DDR3L, 32 GB eMMC, no TPM, no OS, free slots for mSATA, mPCIe FS, mPCIe HS, -20...+50°C
Power Supply AC/DC (302195)	30W AC/DC wall-mount switching adapter with interchangeable AC plugs (EU, US, AUS, UK). VI=90...264V, VO=18V, 1,67A, -20...40/60°C, 30W, 1,7m cable with ferrit core/open-ended
DC Power Connector	2-pin power connector for easy installation (Phoenix FMC1,5/2-ST-3,5), (already included in MBox-V-E39 delivery content)
DIN rail mounting bracket	Can be mounted on bottom side of the chassis. Other mounting options (wall mount, VESA,...) on request.

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