

MBox-R

x86 Family



Robust BoxPC platform for embedded PC applications and IoT edge gateways.

HIGHLIGHTS

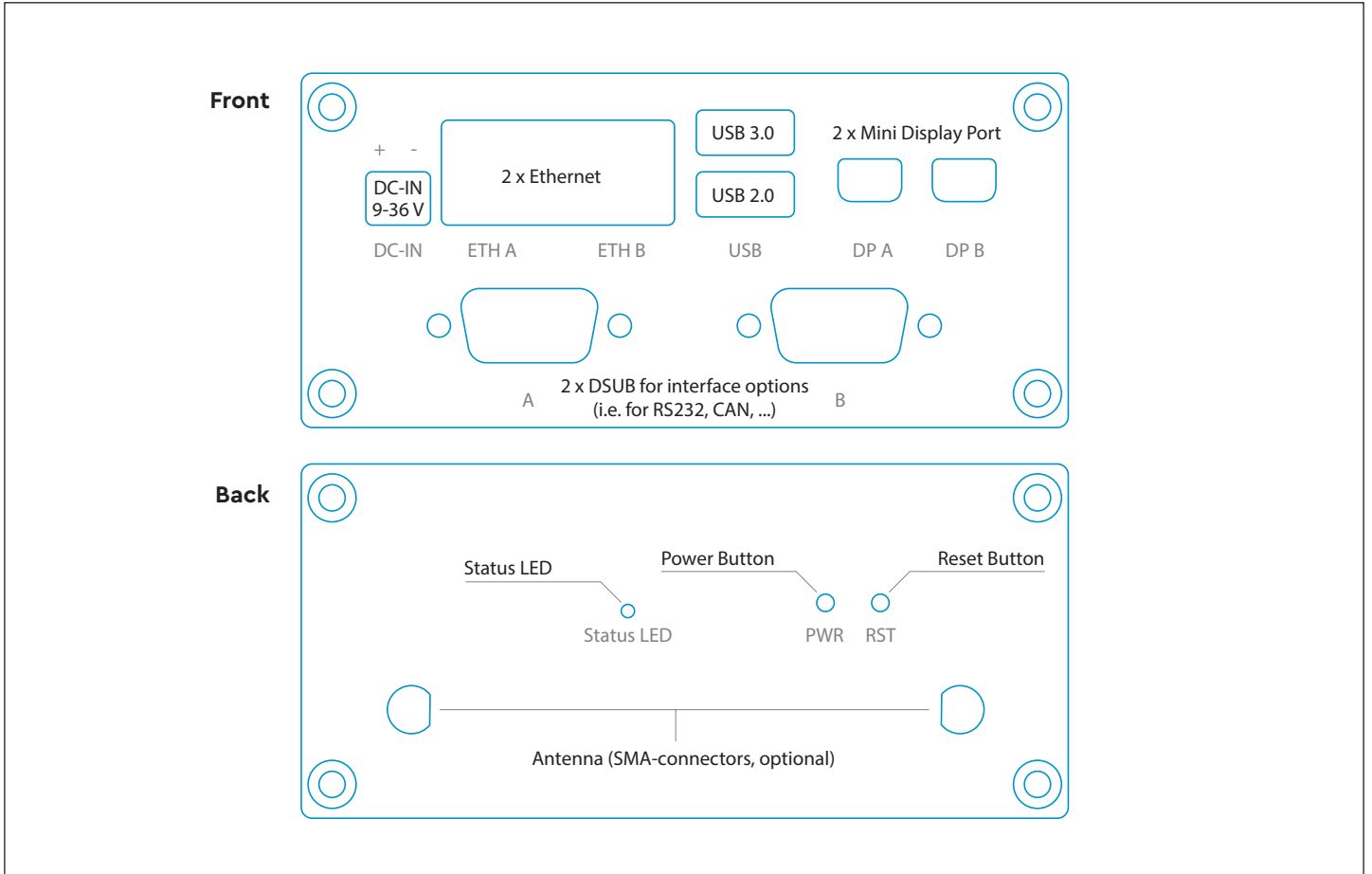
- ▶ Intel Atom® E3800 series (Bay Trail-I)
- ▶ Up to 8 GB DDR3L with ECC
- ▶ Optimized for ultra low power
- ▶ High-Speed IO such as 2x Gb ETH, 2x USB (3.0/2.0)
- ▶ 2x Mini DisplayPort to connect two monitors
- ▶ TPM 1.2/2.0 (option)
- ▶ Watchdog und thermal management
- ▶ Highest reliability, 24/7 certified
- ▶ Extended temperature support (option)
- ▶ Very robust design
- ▶ Individual configurations and ODM branding

TECHNICAL SPECIFICATION

CPU	Intel Atom® E3800 series („Bay Trail-I“) E3845: 4x 1.91 GHz, 2 MB L2-Cache, 10 W E3827: 2x 1.75 GHz, 1 MB L2-Cache, 8 W E3826: 2x 1.46 GHz, 1 MB L2-Cache, 7 W E3825: 2x 1.33 GHz, 1 MB L2-Cache, 6 W E3815: 1x 1.46 GHz, 512 KB L2-Cache, 5 W
Memory	2 GB, 4 GB, 8 GB DDR3L with ECC
Graphics interfaces	2x Mini DisplayPort (DP++) (DP 1.1a, max. resolution 2560×1600)
Interfaces	2x Gbit Ethernet (Intel® i210) 1x USB 3.0 (with USB 2.0 backward compatibility) 1x USB 2.0 2x RS-232 Sub-D9 (option)
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 – 10 W/max. 15 W Battery: CR2032 (replaceable)
Environment	Passive cooled (no fan) Standard temperature: 0°C...+50/60°C Extended temperature: -40°C...+70°C (option)
Form factor/ dimensions	Integrated hardware kit: 100 × 100 × 23 mm Chassis: 104 × 110 × 56 mm (excl. wall mount wings) 104 × 130 × 56 mm (incl. wall mount wings)
Operating Systems	Windows 7, Windows 10 (Standard and Embedded/IoT) Linux (e.g. Ubuntu) Others on request Custom specific software images can be pre-installed.

IO CONNECTORS MBOX-R



ORDERING INFORMATION

MBox-R-E3825-AA	Intel Atom® E3845 (Quad Core, 1.91 GHz, 2 MB L2-Cache, HD Gfx 542/792 MHz, 10W), 4 GB DDR3L-1333 ECC, 128 GB (MLC) mSATA SSD, no TPM, no OS, 0°C...+50°C (without RS-232/DSUB option, not prepared for SMA-connectors)
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-ADV delivery content)

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