janztec
Industrial Computing Architects

FALCON active 1 K3836

Compact-IPC based on Mini-ITX

The FALCON active from Janz Tec is based on the industrial Kontron K3836 mainboard with Mini-ITX form factor and has an intelligent active cooling concept. It can be used flexible as wallmount, rackmount or desktop system. The system can also be equipped with a scalable storage solution, such as hot-swap removable drive bays, internal 2.5" or M.2 SSDs. The system is powered via an external DC connection. The FALCON active is suitable for use in industrial automation as well as for KIOSK or POS applications.

Falcon active 1 front view

FEATURES

Processor
• Intel® Core™ 12th / 13th / 14th Gen processors supported
• Intel® R680E / Q670E chipset

Memory
• up to 96 GB DDR5 SO-DIMM 5600MHz
• ECC support (R680E chipset only)

Storage
• Up to 2x 2,5" SATA SSDs internal or optional with Hot-Swap Storage Expansion Kit, RAID 0 / 1 support
• 1x M.2 NMVe SSD

Internal Interfaces
• 1 x M.2 2230 for WLAN/Bluetooth module

External Interfaces
• 1 x 10/100/1000 MBit/s Ethernet, RJ45, Intel i219LM
• 1 x 10/100/1000/2500 MBit/s Ethernet, RJ45, Intel i226LM, TSN support
• 3 x USB 3.2 Gen2 (10 Gbit/s)
• 1 x USB 3.2 Gen2 type-C (10 Gbit/s)
• 4 x USB 2.0
• 4 x DisplayPort 1.4a (up to 8K)
• 1 x DB9 RS232/422/485
• Audio (Line in, Line out)

Options
• Air Filter Polyurethane PPI30 (front accessible)
• Rackmounting Kit
• Wallmounting Kit
• Desktop/Tower Rubber Feet Kit

Housing
• Dimensions (W x H x D): 328 x 88,8 x 201 mm
• 1x System Fan PWM (Ø80mm)

Environment
• Ambient operating temperature: 0 °C ... 50 °C[1]

Power Supply
• Input: 12 V_{DC} DIN Connector

Software
• Windows 10 / 11 IoT Enterprise LTSC
• Linux

Certifications
• TBD

*1 TBD, validation pending

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