

μDARC Microserver



BLUE LINE
IT for Demanding Environments

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark
T +45 8678 5000 | www.blue-line.com

μDARC Microserver



Highlights

The μDARC microserver is an ultra-rugged, compact, and resilient mobile microserver designed for applications in harsh environments. Powered by a high-efficiency NXP Arm® i.MX8X quad-core processor, it delivers robust computing performance with ultra-low power consumption.

Featuring a wide range of I/O options, μDARC ensures seamless connectivity and real-time data processing at the tactical edge. Its very small form factor, lightweight design, and low power consumption make it ideal for SWaP-constrained missions.



BLUE LINE
IT for Demanding Environments

Blue Line A/S | Kappa 8 | 8382 Hinnerup, Denmark
T +45 8678 5000 | www.blue-line.com

μDARC Microserver

- Ultra-rugged mobile microserver
- Quad-Core NXP Arm® Cortex-A35 processor – i.MX8X
- Ultra-compact
- Robust and secure design with cybersecurity chain of trust
- MIL-STD-810G, STANAG 4370 (AECTP 300, 400, 500), MIL-STD-461G
- CE, REACH / RoHS certified
- Long-term support, ITAR-free
- Cryptographic key management memory
- Linux Yocto 4.0 OS
- Build-to-order configured to your requirements

Specifications

Model Type

Ultra-rugged microserver

Form Factor

Small Form Factor (SFF)

Cooling

Fanless

Ingress Protection

IP67

Environment

Operating temperature

-19 °C to +49 °C



μDARC Microserver

Storage temperature

-21 °C to +71 °C

Certification

CE, REACH / RoHS

MIL-STD-810G

MIL-STD-461G

STANAG 4370 (AECTP 300, 400, 500)

Management Software

U-Boot

Processor

Low Power i.MX8X Series processor

Quad-core Arm® Cortex-A35, one Cortex-M4F

GPU, VPU

RAM

3GB DDR4

Storage

8?GB eMMC (optional up to 32?GB pSLC / 64?GB MLC)

Front Input / Output

3 x USB 2.0 (one OTG)

1 x Gigabit Ethernet (1000BASE-T), optional additional port

2 x EIA-232 with flow control (TXD, RXD, RTS, CTS)

Optional Wi-Fi IEEE802.11 b/g/n with integrated antenna

Optional Bluetooth / BLE 4.2 with integrated antenna

Special Function

Cryptographic keys management memory

Operating System



μDARC Microserver

Linux Yocto 4.0

Power Supply

12 VDC nominal Batteries Type 1: 14.5 V; Type 2: 10.2 V nominal

Power Consumption

Less than 5W

Dimension and Weight

Dimension	H 159.2 × W 111 × D 38.4 mm
Weight	735g

Warranty and After Sales Support

Standard 1 year (option for 3 years)

