

### FANLESS ATOM 4 X 2.0GHz CPU SERVER



- Wide-temperature Intel Atom 64-bit E3845 BayTrail
- 4 x 1.9GHz
- Intel Full-HD Dual-Graphics
- Tough Smart-Tech CPU-Server
- Conformal-coated Electronics
- 1 x Screen Interface
- 1 x Video
- Dual-Band Wi-Fi, BT4.2, GB-Ethernet
- 4G / LTE
- Stereo-Lines, Audio-I/O, Microphone Line-In
- Screen-Audio
- Accurate 72-channels 3D GNSS, ADR
- 3D-Gyro
- CAN, Digital I/O's
- Vehicles; VSS, Gearshift sense, FMS
- Intelligent Power-Moding
- 9 ... 36V / Core-Power monitory
- Mounting; 1-DIN, Surface-Kit, Robust-Kit



### FANLESS ENERGY-EFFICIENT INDUSTRY AND FLEET COMPUTER

**SUNIT-FQA** is Fanless Energy-efficient Intel Atom Quad-Core Computer for Fleets, Terminals and Industry.

**SUNIT-FQA** delivers performance-computing in external range of Tough-environments and Temperature conditions.



**SUNIT-FQA** base on our 1-DIN sized geometrical designed cast aluminium technology and purpose-designed conformal coated solid-electronics.

Inbuilt IoT-computer for CAN-Bus, sensors and data-I/O's are ease-to-reach by Client applications.

Smart design with Full-scale Open architecture Computer technology offer platform for wide-range Industrial, Terminal and Retail application.

SUNIT Computers build on firm and light-weighted geometry designed cast-aluminium mechanics and conformal coated Solid-electronics.

High-speed 4G/LTE Modem, Dual-mode Wi-Fi, Bluetooth 4.2BLE and Gigabit Ethernet efforts safe and rapid communication. Accurate positioning with ADR ensures all-time positioning.

**SUNIT-FQA** unites long In-Field service time with affordable High standard Computing technology complying with Industry ISO-16750 Electronics-Standard and is E-Certified.

**SUNIT Wide-view Touch-screens** delivers safe and reliable Monitor for versatile HMI.

#### SUNIT in Brief—Focus on Client Entrepreneur

Over 20 year's core-focus on tough computers and deep knowledge of client-demands has brought us prime expertise in technology.

We demand ourselves deep knowledge of the Clients entrepreneur and we strive to bring the long-term technology into his ICT.

Our technology connects OAC - Open Architecture Computing to IoT - Internet of Things with Powerful Processing.

Our Products are covered by Industry Standard ISO-16750, UNECE-Regulations and Environmental Standards.

[www.sunit.fi](http://www.sunit.fi)

[marketing@sunit.fi](mailto:marketing@sunit.fi)

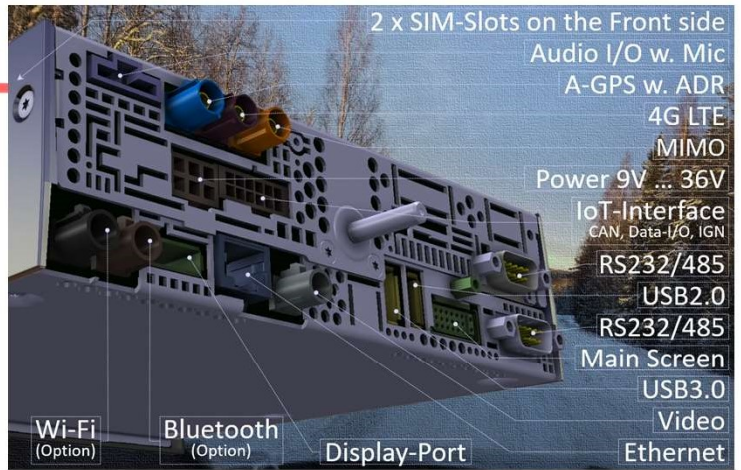


# SUNIT

Bridge for Demanding Duties

## SUNIT FQA

### FANLESS ATOM 4 X 2.0GHz CPU SERVER



## Technical Sheet

<b>CPU</b>	Intel® 64-bit Atom™ E3845 BayTrail, 4x1.9GHz Quad-Core, L2 Cache 2MB.
<b>RAM</b>	Single Channel 4GB DDR3L-1333 or Dual Channel 4GB DDR3L-1333
<b>System Bus</b>	CPU-Integrated Enhanced Intel SpeedStep® Technology
<b>Storage</b>	120 GB Wide temperature mSATA SSD / Optional 240 ... 1000 GB
<b>O/S</b>	WIN-10 IoT Enterprise LTSB/CBB/CB, Win-10 Pro, Win-7 Pro , Win-8.1 Pro, WES-8, LINUX
<b>Graphics</b>	Intel® HD Graphics. Dual Graphic Processors.
<b>Video</b>	Intel® Quick Sync Video Technology supported
<b>Audio</b>	2 x : ● Audio on Screens. 2 x Speaker. ● Intel® HD-Audio & Mic. Wake-UP signal for External Amplifier
<b>Screen Interface</b>	1 x EMI-Shielded, Sunit Touch Digital-LVDS Screen
<b>Screen Type</b>	Sunit Digital Screen (See Specifications). DisplayPort
<b>Ethernet</b>	GigaBit, 100/1000 T-BASE TX. RJ45 LAN Connector
<b>USB</b>	1 x USB 3.0, 1 x USB 2.0
<b>Modem</b>	4G: LTE, DC-HSPA+, UMTS, EDGE, GPRS, Voice, Echo Arithmetic , eCall, VoLTE(Optional)
<b>SIM-slot</b>	1 x Front Feed
<b>Video-In</b>	1 x Conexant CX23885 PCI-E Video and Broadcast Audio Decoder. Automatic A/V-standard detection and configuration. Stereo, Mono, Trivox Supported. NTSC, PAL, SECAM.
<b>Serial Interface</b>	1 x. Configurable RS232 / RS485. (Termination by SW settings) (Option; 2 x)
<b>WI-FI</b>	Intel® Dual-Band Wireless AC-3165, 433Mb/sec. Data Link Protocol: 802.11a/b/g/n/ac. Compliant Standards: IEEE 802.11a/b/d/g/i, IEEE 802.1x. Antenna In-Cabin: 2,4GHz / 1,5dBi. Antenna Outdoor for On-the-Go connections: 2,4GHz / 5dBi
<b>Bluetooth</b>	Bluetooth 4.2 BLE, Low-energy. IPv6 for IoT; WPA2-PSK/AES Standard. Dual-Mode. Compliant Standards: IEEE 802.11ac/w Antenna In-Cabin: 2,4GHz / 1,5dBi. Antenna Outdoor for On-the-Go connections: 2,4GHz / 5dBi
<b>IGN-Sense</b>	Intelligent 4-state Power-Moding. 9V .... 36V. API-Read via T-LINK
<b>CAN</b>	1 x High-Speed CAN: SAE J1939, FMS-Protocol. API-Rewrite via T-LINK.
<b>Digital-IN</b>	4 x Digital-In: · 0V ... 36V, Logic-H +5V, Internal Pull-Ups. · VSS (Vehicle Speed Sensor); Max 4 kHz API-Read via T-LINK · VDS (Vehicle Direction-Sense); Gear-Shift
<b>Digital-Out</b>	1 x Digital-Out: · Voltage Level due to Power-Input API-write via T-LINK · Short-Circuit and Inductive-Load Protected
<b>Gyro</b>	3-AXIS (X-Y-Z) LOW G Digital Accelerometer. Jolt & Pulse detections. API-Readable via T-LINK.
<b>GPS/GNSS</b>	Rapid 72-Channel 3D GNSS receiver (GPS/Galileo/Glonass). ADR (Automotive Dead Reckoning); Dual-channel Readable; API via T-LINK and Direct-Access on Serial-port
<b>Power-In</b>	9 ... 36VDC. API-Read via T-LINK
<b>Back-Up</b>	Internal, Non-Explosive Back-Up Battery NiMH (Nickel-Metal-Hybrid) for Abrupt Power Interrupts. Intelligent Shut Down of Applications and Shut-Off the Unit. ADR-Powering up-to 1 hr.
<b>Dimensions</b>	Universal 1-DIN Sized (163 x 177 x 50) mm. Weight 2,5kg.
<b>Casing &amp; Body</b>	Geometry-designed impact protective Aluminium Body. High-density Steel cover.
<b>Compliant</b>	ECE 10R-04, ISO-16750, FCC CE WEEE 2002/96/EG, RoHS 2002/95/EC, REACH 2006/121/EC
<b>Environment</b>	-40°C ... +85°C. (processor -40°C ... + 110°C) Temperature monitored. 0%~90% Relative Humidity. The product meets all the Vehicle, Machinery and Industrial Environmental criteria's worldwide and is Qualify tested by member of International Laboratory Accreditation Cooperation (ILAC)

- 2 x SIM-Slots on the Front side
- Audio I/O w. Mic
- A-GPS w. ADR
- 4G LTE
- MIMO
- Power 9V ... 36V
- IoT-Interface  
CAN, Data-I/O, IGN
- RS232/485
- USB2.0
- RS232/485
- Main Screen
- USB3.0
- Video
- Ethernet

- Wi-Fi (Option)
- Bluetooth (Option)
- Display-Port



©SUNIT OY. All rights reserved.  
Specifications subject to change without notice