SUNIT
Bridge for Demanding Duties

SUNIT-FQAT

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
- GB-Ethernet
- Screen-Audio
- 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

SUNIT-FQAT is Fanless Energy-efficient Intel Atom Quad-Core Computer for Industry, Terminals and Warehousing.

SUNIT-FQAT delivers performance-computing in Industry with Tough-environments and Temperature conditions.

SUNIT-FQAT 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.

Dual-mode Wi-Fi, Bluetooth 4.2BLE and Gigabit Ethernet and (as Option) Dual-mode Wi-Fi, Bluetooth 4.2BLE efforts safe and rapid communication.

SUNIT-FQAT 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.

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QUALITY E17 ECE 10R-05 0020 CE FC
ISO 9001 BUREAU VERITAS Certification N° FIHSK10299467A
DESIGN FROM FINLAND

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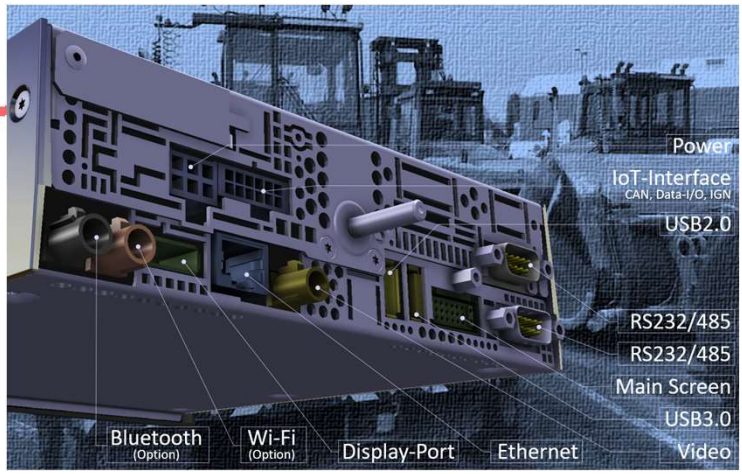
Technical Sheet



CPU	Intel® 64-bit Atom™ E3845 BayTrail, 4x1.9GHz Quad-Core, L2 Cache 2MB.
RAM	Single Channel 4GB DDR3L-1333 or Dual Channel 4GB DDR3L-1333
System Bus	CPU-Integrated Enhanced Intel SpeedStep® Technology
Storage	32GB eMMC / mSATA SSD (Optional Sizes available)
O/S	WIN-10 IoT Enterprise LTSB/CBB/CB, Win-10 Pro, Win-7 Pro , Win-8.1 Pro, WES-8, LINUX
Graphics	Intel® HD Graphics. Dual Graphic Processors.
Video	Intel® Quick Sync Video Technology supported
Audio	2 x Speaker on Screens.
Screen Interface	1 x EMI-Shielded, Sunit Touch Digital-LVDS Screen
Screen Type	Sunit Digital Screen (See Specifications).
Ethernet	100/1000 T-BASE TX. RJ45 LAN Connector
Serial Interface	1 x. Configurable RS232 / RS485. (Termination by SW settings) (Option; 2 x)
USB	1 x USB 3.0 plus 1 x USB 2.0
Video-In	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.
Wi-Fi Option	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
Bluetooth Option	Bluetooth 4.2 BLE, Low-energy. IPv6 for IoT; WPA2-PSK/AES Standard. Dual-Mode. Compliant Standards: IEEE 802.11ac/w Antenna In-Cabin: 2,4GHzZ / 1,5dBi. Antenna Outdoor for On-the-Go connections: 2,4GHz / 5dBi
IGN-Sense	Intelligent 4-state Power-Moding. 9V …. 36V. API-Read via T-LINK
CAN	2 x High-Speed CAN: SAE J1939, FMS-Protocol. API-Rewrite via T-LINK.
Digital-IN	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
Digital-Out	1 x Digital-Out: · Voltage Level due to Power-Input API-write via T-LINK · Short-Circuit and Inductive-Load Protected
Analog-IN	4 x Analog-In: · 1 x 0…50VDC API Read via T-LINK · 3 x 0…10VDC
Gyro	3-AXIS (X-Y-Z) Low-G Digital Accelerometer. Jolt & Pulse detections. API-Readable via T-LINK.
Power-In	9 … 36VDC. API-Read via T-LINK
Back-Up	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.
Dimensions	Universal 1-DIN Sized (163 x 177 x 50) mm. Weight 2,5kg.
Casing & Body	Geometry-designed impact protective Aluminium Body. High-density Steel cover.
Compliant	ECE 10R-04, ISO-16750, FCC CE
	WEEE 2002/96/EG, RoHS 2002/95/EC, REACH 2006/121/EC
Environment	-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)	

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Specifications subject to change without notice

Mission Critical · In-Service Vehicles · Heavy Transport · Public Service · Machinery & C.E. · Terminal Service · Marine Service · Rail Road · Industry Process · Aviation Service