

# SUNIT

Bridge for Demanding Duties

## SUNIT FQ5

### INTEL i5 4 X 1.9GHZ CPU SERVER



- 6<sup>th</sup> Gen. Wide-temp. Intel® i5 7442EQ Skylake H
- 4 x 1.9GHz (Turbo 2.7GHz)
- Intel HD Graphics 530
- Tough Smart-Tech CPU-Server
- Conformal-coated Electronics
- 3 x Screen Interfaces
- Up to 4 x Stand-alone Video
- Dual-Band Wi-Fi, BT4.2, GB-Ethernet
- 4G / LTE
- Stereo-Lines, Audio-I/O, Microphone-In
- Screen-Audio
- Accurate 72-channels 3D GNNS, ADR
- 3D-Gyro
- 2 x CAN, D-IO's, An-In's
- Vehicles; VSS, Gearshift sense, FMS
- Intelligent Power-Moding
- 9 ... 36V / Core-Pwr. monitory



## HEAVY-DUTY COMPUTER

**SUNIT-FQ5.** 6<sup>th</sup> Gen. Intel Skylake Quad-Core Computer with Industry-capacity.

**SUNIT-FQ5** is Cost-effective for demanding Duties as Industry-Automation, Fleets and Heavy In-Fields.

It is Discretely mountable for versatile purposes and serves reliably multiple operations.



**SUNIT-FQ5 serial computers** 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.

In addition FAN-temperature control system keeps processor capacity in maximum efficiency in all processor-load pressures. This ensures Client-applications the Computing environment by far most reliable in all occasions for moreover 100.000 hrs in 24/7 –service. No loose of processor capacity due to environmental impacts.

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

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

**SUNIT FQ5**-serial is The Computer for demanding heavy-Duty Service.

### 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.

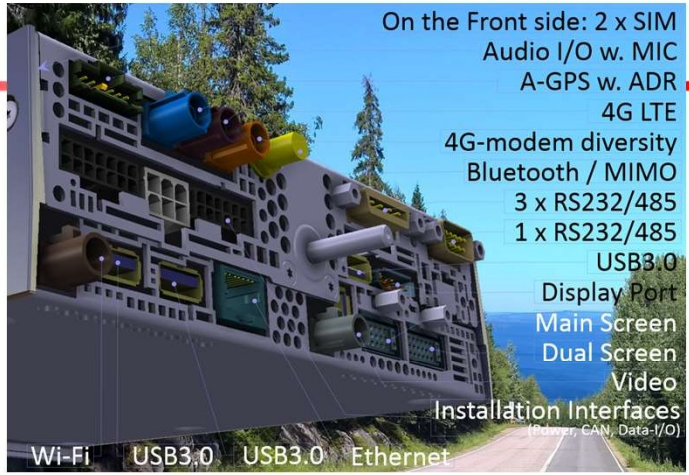
Our technology connects OAC - Open Architecture Computing to IoT - Internet of Things with Powerful Processing.

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

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## Technical Sheet

<b>CPU</b>	6 <sup>th</sup> Gen. Intel® Core™ i5-7442EQ Skylake-H, 4x1.9GHz (4x2.7GHz), 6MB, DMI3.0 8GT/s.
<b>RAM</b>	Dual Channel 4GB (Option 8GB) DDR4-2400MHz. 37.5GB/s.
<b>System Bus</b>	Mobile Intel® HM170 PCH. Intel® Rapid Storage technology, Flexible RAID Configuration, Flexible Display Interface (FDI) and Intel Clear Video HD Technology. Intel® HD Audio
<b>Storage</b>	240 GB Wide-temp. SSD. Optional 480 GB—1TB. Up-to 4 x SATA-III 6GB/s.
<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 530 Graphics. 4K Media Codecs. High 3D-Rendering on Low-Power mode
<b>Video</b>	Intel® Quick Sync Video and Intel® Clear Video HD. 3D-Graphic, 4K Media Codecs.
<b>Audio</b>	3 x: 1. Audio on Screens (incl. HDMI-interface) 2. Intel® High Definition Audio Line-Out. Wake-UP signal for External Amplifier 3. 2 x 30W Speaker lines, Stereo
<b>Microphone</b>	Microphone-In
<b>Screen Interface</b>	3 x: 2 x EMI-Shielded, Sunit Touch Digital-LVDS Displays. 1 x Display-Port for e.g. CCTV
<b>Screen Type</b>	2 x Sunit Digital Screen (See Specifications) and 1 x Universal CCTV Monitor
<b>Ethernet</b>	Intel® I211-AT. GB-Ethernet Up-to 2.5GbE. 10/100/1000. Base-T. RJ45 Connector
<b>USB</b>	4 x USB 3.0
<b>SIM-slot</b>	Dual-SIM: 2 x Front Feed
<b>Modem</b>	4G: LTE, DC-HSPA+, UMTS, EDGE, GPRS, Voice, Echo Arithmetic, eCall, VoLTE(Option)
<b>Video-In</b>	1 x Conexant CX23885 PCI-E Video Decoder Automatic A/V-standard detection and configuration. NTSC, PAL, SECAM
<b>Serial Interface</b>	4x Configurable RS232 / RS485 (Termination by SW settings)
<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: 2,4GHzZ / 1,5dBi. Antenna Outdoor for On-the-Go connections: 2,4GHz / 5dBi
<b>IGN-Sense</b>	Intelligent 4-state Power Management. 9V .... 36V. API-Readable via T-LINK
<b>CAN</b>	2 x High-Speed CAN: SAE J1939, ISO 11783 and NMEA 2000. API Re-Write via T-LINK. FMS-Protocol.
<b>Digital-IN</b>	4 x High-Active D-In: · 10V ... 36V, Logic-H +11V, Internal Pull-Downs API Read via T-LINK · Pre-start / Wake-Up of System on Arctik conditions 3 x Low-Active Di-In: · 0V ... 36V, Logic-H +5V, Internal Pull-Ups · VSS (Vehicle Speed Sensor)
<b>Digital-Out</b>	API Read via T-LINK · VDS (Vehicle Direction-Sense); Gear-Shift 4 x Digital-Out: · Voltage Level due to Power-Input API Re-Write via T-LIN · Short-Circuit and Inductive-Load Protected
<b>Analog-IN</b>	4 x Analog-In: · 1 x 0...50VDC API Read via T-LINK · 3 x 0...10VDC
<b>Gyro / Acc.</b>	3D Gyro. 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 ... 36 VDC. API-Readable 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 2.6kg
<b>Casing &amp; Body</b>	High Pressed and Geometry-designed impact protective Aluminium Body. High-density Steel cover
<b>Compliant</b>	ECE 10R-04, FCC, CE, C-Stick
<b>Environment</b>	WEEE 2002/96/EG, RoHS 2002/95/EC, REACH 2006/121/EC

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 Specifications subject to change without notice

The product meets all the Vehicle, Machinery and Industrial Environmental criteria's worldwide and is Quality tested by member of International Laboratory Accreditation Cooperation (ILAC)

