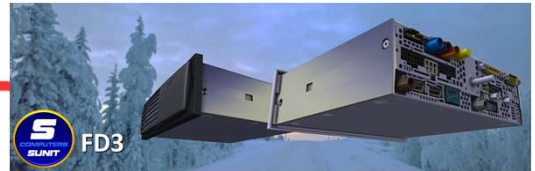


# SUNIT

Bridge for Demanding Duties

## SUNIT FD3

INTEL i3 2 X 1.9GHZ CPU SERVER



- 6<sup>th</sup> Gen. Wide-temp. Intel® i3 6102E SkyLake H
- 2 x 1.9GHz
- Intel HD Graphics 530
- Tough Smart-Tech CPU-Server
- Conformal-coated Electronics
- 2 x Screen Interfaces
- 1 x Video-In
- Dual-Band Wi-Fi, BT4.2, GB-Ethernet
- 4G / LTE
- Stereo-Lines, Audio-I/O, Microphone-In
- Screen-Audio
- Accurate 72-channels 3D GNSS, 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-FD3** continues FD2's excellent heritage of serving the heavy sector's demands with cost-effective in-service lifespan.

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



**SUNIT-FD3** 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 FD3** 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.

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

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

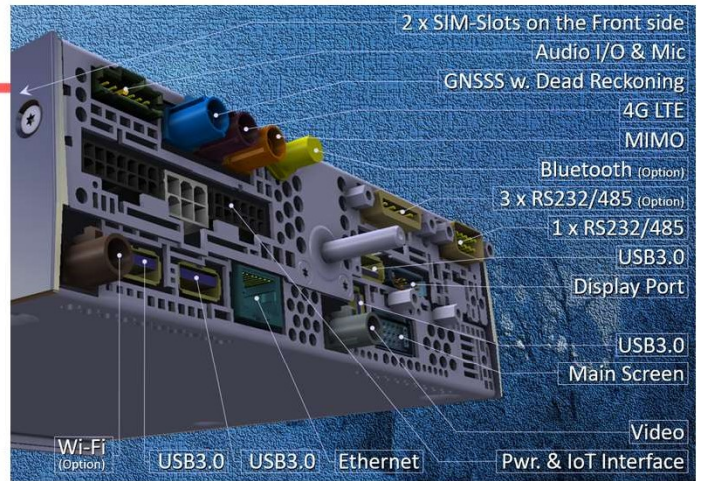


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INTEL i3 2 X 1.9GHZ CPU SERVER



## Technical Sheet

<b>CPU</b>	6th Gen. Intel® Core™ i3-6102E SkyLake H, 2x1.9GHz, 3MB, Intel Smart Cache 8GT/s.		
<b>RAM</b>	Dual Channel 4GB DDR4-2133MHz. 34.1GB/s.		
<b>System Bus</b>	3rd Gen. Mobile Intel® HM175 PCH. Intel® Rapid Storage technology, Intel® HD Audio. Flexible RAID with Dynamic Storage Accelerator, Flexible Display Interface (FDI) and Intel Clear Video HD Technology		
<b>Graphics</b>	Gen-9 Intel® HD 530 Graphics.		
<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>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>	2 x: 1 x EMI-Shielded, Sunit Touch Digital-LVDS Displays. 1 x Display-Port for e.g. CCTV		
<b>Screen Type</b>	1 x Sunit Digital Screen (See Specifications) and 1 x Universal CCTV Monitor		
<b>Ethernet</b>	Intel® Ethernet I219-V/LM. IEE1588 Low Power GB-LAN. 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>	1x (Option 4x) Configurable RS232 / RS485 (Termination by SW settings) Intel® Dual-Band Wireless AC-3165, 433Mb/sec.		
<b>WI-FI</b>	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. FMS-Protocol. 3 x High-Active D-In: · 10V ... 36V, Logic-H +11V, Internal Pull-Downs · Pre-start / Wake-Up of System on Arctic conditions		
<b>Digital-IN</b>	· 0V ... 36V, Logic-H +5V, Internal Pull-Ups · VSS (Vehicle Speed Sensor) · VDS (Vehicle Direction-Sense); Gear-Shift		<u>Option</u> +3 x Low-Active Di-In
<b>Digital-Out</b>	2 x Digital-Out: · Voltage Level due to Power-Input · Short-Circuit and Inductive-Load Protected		<u>Option:</u> +2 x Digital-Out
<b>Analog-IN</b>	3 x Analog-In: · 1 x 0...50VDC · 3 x 0...10VDC		<u>Option:</u> +1 x Analog-Out
<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 WEEE 2002/96/EG, RoHS 2002/95/EC, REACH 2006/121/EC		
<b>Environment</b>	-40°C ... +85°C. Temperature monitored. 0%~90% Relative Humidity		

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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 Qualify tested by member of International Laboratory Accreditation Cooperation (ILAC)

