

# SUNIT

Bridge for Demanding Duties

## SUNIT FD2

INTEL I7 2 X 2.5GHz CPU SERVER



- ✓ 3<sup>rd</sup> Generation Wide-tmp Intel® IVY-Bridge Core i7
- ✓ 2 x 2,5 GHz
- ✓ Intel HD Tri-graphic
- ✓ Smart Tri-Screen Technology
- ✓ Accurate AGPS / GNSS w. ADR
- ✓ 1 x Video
- ✓ 2 x CAN, D-IO's, An-In's
- ✓ 3G HSPA / 4G LTE
- ✓ Stereo-Lines, Audio-I/O with Wake-Up
- ✓ Screen-Audio
- ✓ 3 x Screen Interfaces
- ✓ Tough Smart-Tech CPU-Server
- ✓ Intelligent Power-Moding
- ✓ 9 ... 36V / Core-Pwr. monitory



## LONG-RIDER COMPUTER FOR HARSH ENVIRONMENTS

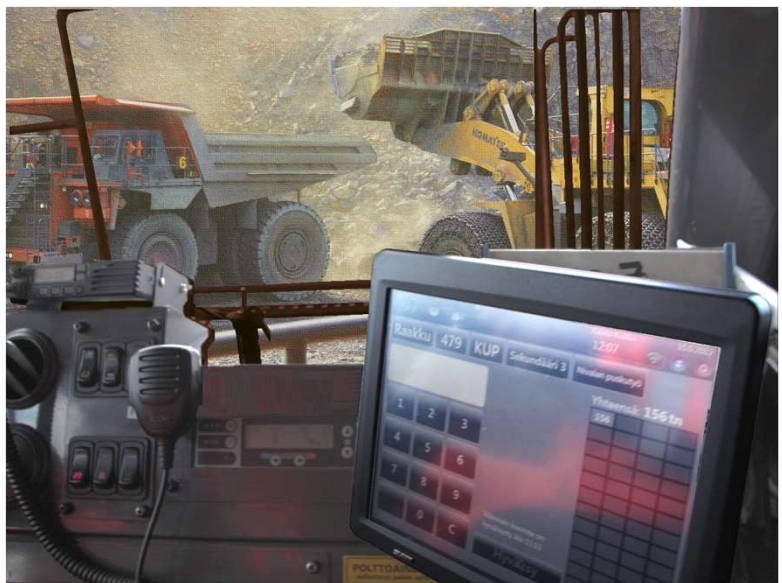
**Sunit-FD2** is our Long-Rider Intel IVY-Bridge i7 High-capacitive Computer serving tens of thousands Clients in harsh conditions where the Duty calls effective performance.

Tough and light-weighted mechanics build on a geometrical cast aluminium technology and the purpose-designed conformal coated electronics ensures our well-known long In-Service time even under harshest conditions.

For vehicle accurate positioning, Dual-GPS/GNNS with Automotive Dead Reckoning (ADR) by 70-channel Super-sense GPS ensures all-time positioning for Dual-Applications.

High-speed Modem with Dual-SIM, Dual-stream Wi-Fi with Access-Point and Bluetooth 4.2 BLE serves safe Local Communications. Gigabit Ethernet efforts rapid Network.

**Sunit-FD2** is excellent for challenging Duties as Mission-critical, Law enforcement, Command-cars, Heavy-duty for On-Road and Off-Road and is compliant with Vehicle Industry Standard ISO-16750 (2, 3, 4,5) and is E-Certified.



### 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)

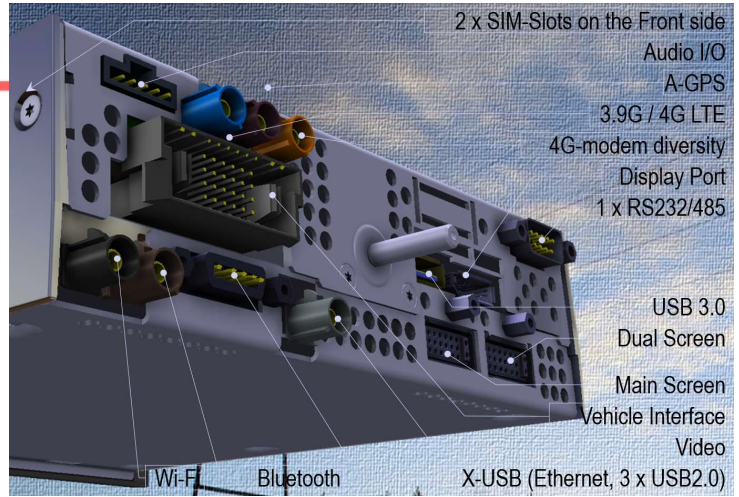


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### Technical Sheet

<b>CPU</b>	3rd Gen. Intel® Core™ i7 3555LE IVY-Bridge, 2x2.5GHz (2x3.1GHz), Smart-Cache 4MB, DMI 5GT/s. Intel HM76 Express Rapid technology Chipset.
<b>RAM</b>	Dual Channel 4GB or 8GB DDR3/1600MHz Technology.
<b>System Bus</b>	Mobile Intel® HM76 Express. Flexible Display Interface (FDI) and Direct Media Interface (DMI). Intel® HD Audio
<b>Storage</b>	120 GB Automotive & Wide-temp. SSD. Optional 240, 480 GB. SATA-III 6GB/s.
<b>O/S</b>	Win 7 Pro, Win WES8, Win 8.1 Pro, Win 10 Pro, Linux Debian 8.0, Linux Ubuntu 15.04.
<b>Graphics</b>	Intel® HD 4000 3D-Graphic for Triple Screens. Open-GL(4.0), Direct-X(DX11).
<b>Video</b>	Intel® Clear Video HD Technology. Intel® Quick Sync Video Technology supported.
<b>Audio</b>	3 x : 1. Audio on Screens. 2. Intel® High Definition Audio Out. Wake-UP signal for External Amplifier. 3. 2 x 30W Speaker lines, Stereo.
<b>Microphone</b>	Microphone-In.
<b>Screen Interfaces</b>	3 x: 2 x EMI-Shielded, Sunit Touch Digital-LVDS Displays. 1 x Display-Port (Option)
<b>Screen Types</b>	Screen / Sunit: 2 x Sunit Digital Screen (See Specifications). Screen / DP: 1 x Universal CCTV Monitor Display Port
<b>Ethernet</b>	Intel 82579LM 64Bit Technology. IEE 802.3 Gigabit LAN. 10/100/1000 Base-T MAC, PCIe. RJ45 LAN Connector, via Sunit-designed MDR-Cable for Close-to-User access
<b>USB</b>	4 x USB: 1 x USB 3.0 (CPU) 3 x USB 2.0 via MDR-Cable for Close-to-Access
<b>SIM-slot</b>	Dual-SIM: Front Feed.
<b>Video-In</b>	1 x (Option 4 x ) Conexant CX23885 PCI-E Video Decoder. Automatic A/V-standard detection and configuration. NTSC, PAL, SECAM.
<b>Serial Int.</b>	1 x (Option 4x) Configurable RS232 / RS485 (Termination by SW settings)
<b>WI-FI (Option)</b>	Intel® Dual-Band Wireless AC-7260, up to 867Mb/sec. Data Link Protocol: 802.11a/b/g/n/ac. Compliant Standards: IEEE 802.11abgn/ac/d/e/i/h/w. Antenna In-Cabin: 2,4GHz / 1,5dBi. Antenna Outdoor for On-the-Go connections: 2,4GHz / 5dBi
<b>Bluetooth (Option)</b>	Bluetooth 4.0 Low-energy. Dual-Mode 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0(BLE). 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>	2 x CAN: SAE J1939, ISO 11783 and NMEA 2000. API-Rewrite via T-LINK or Direct-Access.
<b>Digital-IN</b>	4 x High-Active: 10V ... 36V, Logic-H +11V, Internal Pull-Downs. API-Read via T-LINK Pre-start / Wake-Up of System on Arctic conditions. 3 x Low-Active : 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>	4 x D-Out: Voltage Level due to Power-Input API-Rewrite via T-LINK Short-Circuit and Inductive-Load Protected
<b>Analog-IN</b>	4 x An-In: 1 x 0...50VDC API-Read via T-LINK 3 x 0...10VDC
<b>Gyro / Acc.</b>	Gyroscope integrated on GPS. API-Readable via T-LINK.
<b>GNSS</b>	Rapid 50-Channel A-GPS (GPS/Galileo/Glonass). Dual-channel Readable; API and Direct-Access. ADR (Automotive Dead Reckoning); Gyroscope , VSS & VDS-Sensors.
<b>Tele comm.</b>	3G (Standard) 4G (Option)
<b>Power-In</b>	9 ... 36 VDC. 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 2,3kg.
<b>Casing &amp; Body</b>	Geometry-designed impact protective Aluminium Body. High-density Stress-eliminative 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. Temperature monitored. 0%~90% Relative Humidity.

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)

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