

SUNIT-FMC

SKYLAKE 4 X 2.8GHz FOR INTELLIGENCE DUTIES

- ✓ 6th Gen. Wide-temp. Intel® i7 6820EQ Skylake
- ✓ 4 x 2.8GHz
- ✓ Intel HD Tri-graphic
- ✓ Accurate AGPS / GNSS with ADR-accuracy
- ✓ Up to 4 x Stand-alone Video
- ✓ 2 x CAN, D-IO's, An-In's
- ✓ 4G / LTE
- ✓ Stereo-Lines, Audio-I/O with Wake-Up signal
- ✓ Microphone Line-In
- ✓ Screen-Audio
- ✓ 3 x Screen Interfaces
- ✓ Vehicles; Gearshift sense, FMS
- ✓ Tough Smart-Tech CPU-Server
- ✓ Intelligent Power-Moding
- ✓ 9 ... 36V with Core-Power monitor



SUNIT-FMC. New 6th Gen. Intel Skylake Quad-Core Computer with powerful capacity.

SUNIT-FMC unites Efficiency, Sharpness, Precision and Alertness in compact package.

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

Tri-graphic technology with up-to 4 Stand-Alone HMI (2 x Digital-LVDS, Display-Port, Wi-Fi) is efficient and cost-effective solution to exploit shared PC technologies.

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

72-channel GPS with G-sensor and ADR ensures accurate positioning. It serves dual GPS-interface for Multitask-Applications.

EAGLE-IRIS, for demanding Duties

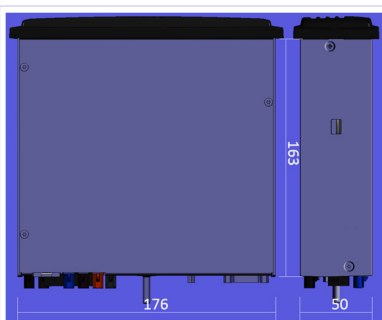
Demanding Duties asks progressive solutions and Intelligent applications where demands toward computer as a trusted server is obvious.

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

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



SUNIT-FMC is compliant with 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 Open Architecture Computing to Internet of Things with Powerful Processing.

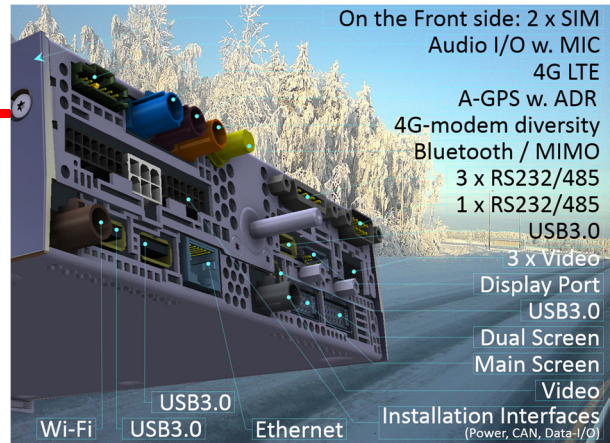
Our Products are covered by Industry Standard ISO-16750, UNECE-Regulations and Environmental Standards.



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Data Sheet



CPU	6th Gen. Intel® Core™ i7-6820EQ SkyLake-H, 4x2.8GHz (4x3.5GHz), Smart-Cache 8MB, DMI3 8GT/s. Mobile Intel HM170 PCH Rapid technology Chipset.
RAM	Dual Channel 8GB (Option 16GB) DDR4-2133MHz. 34GB/s.
System Bus	3rd Gen. Mobile Intel® HM170 PCH. Intel® Rapid Storage technology, Intel® HD Audio. Flexible RAID Configuration, Flexible Display Interface (FDI) and Intel Clear Video HD Technology.
Storage	60 GB Automotive & Wide-temp. SSD. Optional 120G, 180, 240, 480 GB. SATA-III 6GB/s.
O/S	Win 7 Pro, Win WES8, Win 8.1 Pro, Win 10 Pro, Linux Debian 8.0, Linux Ubuntu 15.04.
Graphics	Intel® HD 530 Graphics. 4K Media Codecs. High 3D-Rendering on Low-Power mode.
Video	Intel® Quick Sync Video and Intel® Clear Video HD. 3D-Graphic, 4K Media Codecs.
Audio	3 x: 1. Audio on Screens (incl. HDMI-interface). 2. Intel® High Definition Audio Line-Out. Wake-UP for External Amplifier. 3. 2 x 30W Speaker lines, Stereo.
Microphone	Microphone-In.
Screen Interface	Triple Screen: 2 x EMI-Shielded, Sunit Touch Digital-LVDS Displays. 1 x Display-Port
Screen Type	2 x Sunit Digital Screen (See Specifications) 1 x Universal CCTV Monitor
Ethernet	Intel® Ethernet I219-V/LM. IEEE1588 Low Power GB-LAN. 10/100/1000 Base-T. RJ45 Connector.
USB	4 x USB 3.0
SIM-slot	Dual-SIM: 2 x Front Feed
Video-In	1 x (Option 4 x) Conexant CX23885 PCI-E Video Decoder. Automatic A/V-standard detection and configuration. NTSC, PAL, SECAM.
Serial Interface	4x Configurable RS232 / RS485 (Termination by SW settings)
WI-FI	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	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
IGN-Sense	Intelligent 4-state Power Management. 9V 36V. API-Readable via T-LINK
CAN	2 x High-Speed CAN: SAE J1939, ISO 11783 and NMEA 2000. API Re-Write via T-LINK. FMS-Protocol.
Digital-IN	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 Arctic conditions. 3 x Low-Active Di-In: · 0V ... 36V, Logic-H +5V, Internal Pull-Ups. · VSS (Vehicle Speed Sensor) API Read via T-LINK · VDS (Vehicle Direction-Sense); Gear-Shift
Digital-Out	4 x D-Out: · Voltage Level due to Power-Input API Re-Write via T-LIN · Short-Circuit and Inductive-Load Protected
Analog-IN	4 x A-In: · 1 x 0...50VDC API Read via T-LINK · 3 x 0...10VDC
Gyro / Acc.	Gyroscope integrated on GPS. API-Readable via T-LINK.
GNSS	Rapid 72-Channel A-GPS receiver (GPS/Galileo/Glonass). ADR (Automotive Dead Reckoning); Gyroscope, VSS & VDS-Sensors. Dual-channel Readable; API via T-LINK and Direct-Access on Serial-port.
Integrated Tele communication	4G: LTE: 800 / 900 / 1800 / 2100 / 2600 MHz WCDMA: 8950 / 900 / 1900 / 2100 MHz, RX Diversity Quad Band GSM/GPRS/EDGE: 900 / 1800 / 1900 MHz
Power-In	9 ... 36 VDC. API-Readable 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 2.6kg.
Casing & Body	High Pressed and Geometry-designed impact protective Aluminium Body. High-density Steel cover.
Compliant	ECE 10R-04, FCC, CE, C-Stick WEEE 2002/96/EG, RoHS 2002/95/EC, REACH 2006/121/EC ©SUNIT OY. All rights reserved. Specifications subject to change without notice
Environment	-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 Qualify tested by member of International Laboratory Accreditation Cooperation (ILAC)