

SUNIT
Bridge for Demanding Duties

SUNIT FMD

INTEL i7 4 X 3.0GHZ FOR INTELLIGENCE DUTIES



- 7th Gen. Wide-temp. Intel® i7 7820EQ Kaby Lake H
- 4 x 3.0GHz
- Intel HD Tri-graphic
- Tough Smart-Tech CPU-Server
- Conformal-coated Electronics
- 3 x Screen Interfaces
- Up to 4 x Stand-alone Video
- 2 x CAN, D-IO's, An-In's
- Dual-Band Wi-Fi, BT4.2, 4G / LTE
- Accurate 72-channels 3D GNSS, ADR
- 3D-Gyro
- Stereo-Lines, Audio-I/O, Microphone-In
- Screen-Audio
- Vehicles; VSS, Gearshift sense, FMS
- Intelligent Power-Moding
- 9 ... 36V / Core-Pwr. monitory



EAGLE-CLASS HIGH-EFFICIENT FOR EXTREMELY DEMANDING SERVICE

SUNIT-FMD. New 7th Gen. Intel Kaby Lake Quad-Core Computer with extreme capacity.

SUNIT-FMD is designed for Applications that call for powerful graphic processing, High-speed Arithmetic, Multi-HMI as Mission Critical and ANPR.

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

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

Demanding Duties asks progressive solutions and Intelligent applications claiming computer as a trusted server on day-around service.

Tri-graphic and Rapid Storage 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.

Rapid 72-channel 3D-GPS with G-sensor and ADR ensures accurate positioning and serves dual GPS-interface for Multitask-Applications

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 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.

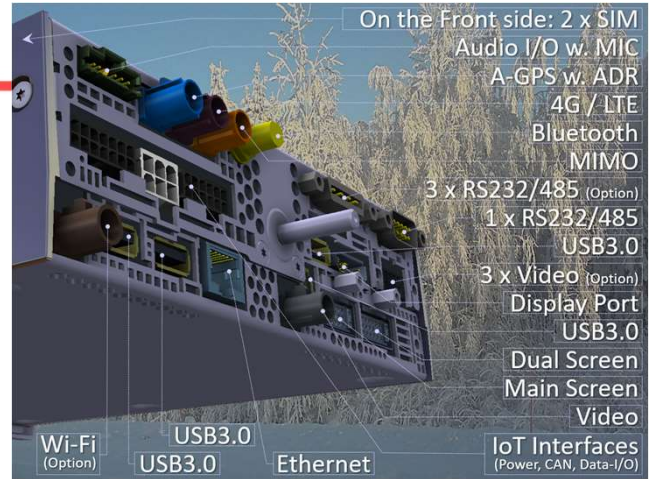
Our technology connects OAC - Open Architecture Computing to IoT - Internet of Things with Powerful Processing.

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

www.sunit.fi

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Technical Sheet

CPU	6th Gen. Intel® Core™ i7-7820EQ KabyLake-H, 4x3.0GHz (4x3.7GHz), 8MB, DMI3.0 8GT/s.	
RAM	Dual Channel 8GB (Option 16GB) DDR4-2400MHz. 37.5GB/s.	
System Bus	3rd Gen. Mobile Intel® HM175 PCH. Intel® Rapid Storage technology, Intel® HD Audio.	
Storage	240 GB Wide-temp. Mini-SSD. Optional 480 GB—1TB. Up-to 4 x SATA-III 6GB/s.	
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 630 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 signal for External Amplifier 3. 2 x 30W Speaker lines, Stereo	
Microphone	Microphone-In	
Screen Interface	Triple Screen: 2 x Sunit Touch Digital-LVDS Displays. 1 x Display-Port for e.g. CCTV	
Ethernet	Intel® I211-AT. Low Power GB-Ethernet Up-to 2.5GbE. 10/100/1000 Base-T. RJ45 Connect.	
USB	4 x USB 3.0	
Modem	4G: LTE, DC-HSPA+, UMTS, EDGE, GPRS, Voice, Echo Arithmetic, eCall, VoLTE(Option)	
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. IEEE WLAN Standard: 802.11abgn, 802.11ac, 802.11d, 802.11e, 802.11i, 802.11h, 802.11w Seamless Roaming: IEEE 802.11b, 802.11g, 802.11a/b/g, 802.11a/b/g/n, 802.11ac 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. 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	
Digital-IN	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 Digital-Out: · Voltage Level due to Power-Input API Re-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 / Acc.	3-AXIS (X-Y-Z) LOW G Digital Accelerometer. Jolt & Pulse detections. API-Readable via T-LINK.	
GPS/GNSS	Rapid 72-Channel 3D GNSS (GPS/Galileo/Glonass). ADR (Automotive Dead Reckoning). 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 Apps 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	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	
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)		

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Specifications subject to change without notice

