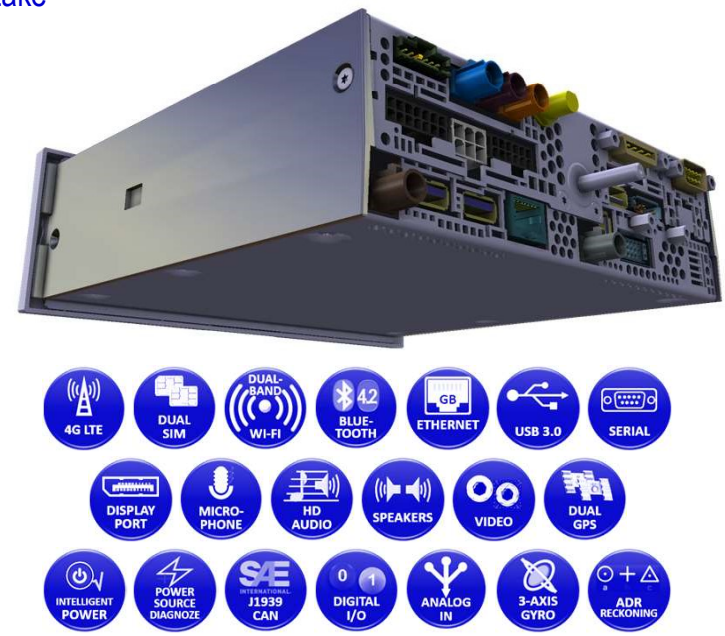
SUNIT
Bridge for Demanding Duties

SUNIT FDC

INTEL CELERON 2 X 1.65GHz CPU SERVER

- Wide-temperature Intel® Celeron-G G3902E SkyLake
- 2 x 1.6GHz
- Intel HD Graphics 510
- Tough Smart-Tech CPU-Server
- Conformal-coated Electronics
- 2 x Screen Interfaces
- 1x 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 GNNS, ADR
- 3D-Gyro
- 1 x CAN, D-IO's, An-In's
- Vehicles; VSS, Gearshift sense, FMS
- Intelligent Power-Moding
- 9 … 36V / Core-Pwr. monitory

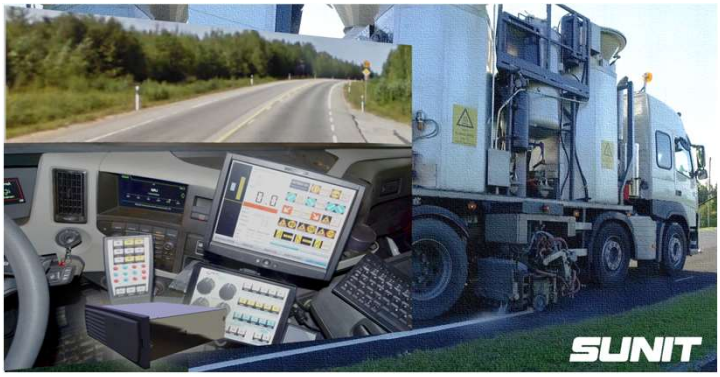


DUAL-CORE CELERON SKYLAKE COMPUTER

SUNIT-FDC. Intel SkyLake Dual-Core Computer with Industry-capacity.

SUNIT-FDC is Cost-effective and versatile solution for demanding Duties as Industry-Automation, Fleets and Heavy In-Fields.

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



SUNIT-FDC serial computers base on our 1-DIN sized geometrical designed cast aluminium technology and purpose-designed conformal coated solid-electronics.

Inbuilt IoT-computer for Dual 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 temperature 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 FDC-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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QUALITY
E17 ECE 10R-05 0020
ISO 9001 BUREAU VERITAS Certification
N° FIHSK10299467A
DESIGN FROM FINLAND

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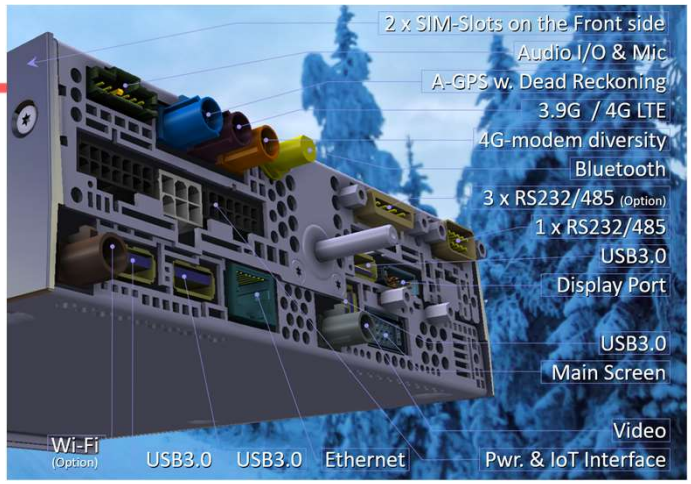

Technical Sheet

CPU	7th Gen. Intel® Celeron-G G3902E SkyLake, 2x1.6GHz, 2MB, 8GT/s.			
RAM	Dual Channel 4GB (Option 8GB) DDR4-2400MHz. 37.5GB/s.			
System Bus	DMI-3, 5GT/s			
Storage	240 GB Automotive & Wide-temp. Mini-SSD. Optional 480 GB – 1TB. 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 510 Graphics. 64GB. DirectX-12, OpenG-L-4.4, OpenCL-2.0, DP-1.2, e.DP-1.3, HDMI-1.4a			
Video	Intel Quick Sync Video, Intel InTru 3D, Intel Clear Video, Intel Clear Video HD			
Audio	2 x:	1. Audio on Screens (incl. HDMI-interface) 2. 2 x 30W Speaker lines, Stereo		
Screen Interface	2 x:	1 x EMI-Shielded, Sunit Touch Digital-LVDS Displays. 1 x Display-Port for e.g. CCTV		
Screen Type	1 x Sunit Digital Screen (See Specifications) and 1 x Universal CCTV Monitor			
Ethernet	Intel® Ethernet I219-V/LM. IEE1588 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		
Modem	4G:	LTE, DC-HSPA+, UMTS, EDGE, GPRS, Voice, Echo Arithmetic , eCall, VoLTE(Option)		
Video-In	1 x Conexant CX23885 PCI-E Video Decoder Automatic A/V-standard detection and configuration. NTSC, PAL, SECAM			
Serial Interface	*Alternatively* 1 or 4 x Configurable RS232 / RS485 (Termination by SW settings)			
WI-FI	*Option* 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	*Option* 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			
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. Dual-Interface: Direct-Access and API via T-LINK.		
Digital-IN	3 x High-Active D-In: API Read via T-LINK	· 10V … 36V, Logic-H +11V, Internal Pull-Downs · Pre-start / Wake-Up of System on Arctic conditions		
	API Read via T-LINK	· 0V … 36V, Logic-H +5V, Internal Pull-Ups · VSS (Vehicle Speed Sensor) · VDS (Vehicle Direction-Sense); Gear-Shift	*Option*	+3 x Low-Active Di-In
Digital-Out	2 x Digital-Out:	· Voltage Level due to Power-Input · Short-Circuit and Inductive-Load Protected	*Option:*	+2 x Digital-Out
Analog-IN	3 x Analog-In: API Read via T-LINK	· 1 x 0…50VDC · 3 x 0…10VDC	*Option:*	+1 x Analog-Out
Gyro / Acc.	3D Gyro.	API-Readable via T-LINK.		
GPS/GNSS	Rapid 72-Channel 3D GNNS receiver (GPS/Galileo/Glonass). ADR (Automotive Dead Reckoning). Dual-channel;	2 x Serial-Interface		
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			
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)

Mission Critical · In-Service Vehicles · Heavy Transport · Public Service · Machinery & C.E. · Terminal Service · Marine Service · Rail Road · Industry Process · Aviation Service