ABOUT US

Who we are
What we do
Where we are

SUNIT
Bridge for Demanding Duties

S
COMPUTERS
SUNIT

®

Design
From
Finland

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

VISION AND STRATEGY

Sunit Oy delivers always tailored computing technology in compliance with Customer Entrepreneur model.

The modular design and flexible organization enables us to offer customized product, knowledge and support to client-specific claims.

Our Business-model is to be in close co-operation with Clients ERP-organisation and Integrator, whom we consider to be our partners.

OUR VALUES

We aim always that our Clients are successful in Entrepreneur and call for high standards for daily service.

We work hard to deliver products for tough-duties.

We aim to be proud for Clients prosperity, it brings us well-being.

We always strive to be proactive in Client-relations by seeing far onwards in technology prospects.

SUNIT-QUALITY = TOPMOST IN-SERVICE LIFE-TIME

Within QA/QC and Good Manufacturing Practice we encourage a culture of innovation, responsibility and rectitude to ensure continuous improvement of responsibility in front of our Clients.

We strive to be Client's first choice today and tomorrow and the Quality is a natural part in all collaboration forms.

In technology and process we follow Industry Standard ISO-16750 and we effort heavily our resources to deliver products and service with Standard-associated quality.

Our Products are globally UNECE E-Certified.

Core focus on Design and Supply of Computer-technology with intensive insight into the demands in Heavy-Duty Industry and Fleet environments has brought us skilful Computer technology expertise.

We serve purpose-tailored Fixed-Mount Computing technology covered by the Harsh-industry Quality standards and test procedures. Our Product design considers the Customer's enterprises. We collaborate in close ratio in information technology area of ERP, Supply-Chain, Logistics and Fleet-management.
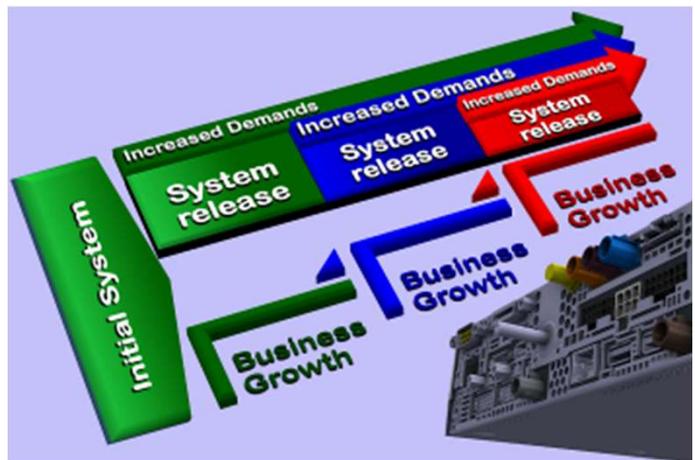

Open Architect Computing – Edge On Iot

The usual lifetime of ICT-system is 10 years. On that time the System-revisions takes several rounds. It is important that computer technology enables changes and updates at limited expenses.

An Open Architecture Computer can be easily updated and adapted to the future needs, it is trusted and desired.

An Open Architecture Computer allows operators and software developers use the same platform for all fleet vehicle-types.

An Open Architecture Computer makes both maintenance and service, development and deployment easier, and hence the cost of modernizing of ICT-System is reduced.

Environment, Be Aware With Long-life Service

The environment is significant aspect on Industry world and calls for contributes toward better environment by value-added technologies.

The Electronics industry itself impacts Environment seriously and Sunit realize that best contribution is to deliver products with extremely long service life.

"What-if" is our question. What if we all Electronic suppliers help environment by designing dual-life products?

Our mission is frankly Environment friendly products without reservations.

Nowadays it is common that Entrepreneur Duties obligates efficiency and operational reliability from the Computers.

Mechanically identical, with customized computer performance, significantly reduces hardware maintenance costs and minimizes application variations.

As well the swapping of Computers between duties is ease.

Common supplier for whole fleet reduces the Management expenses.

Whether the Industry calls for Single- or Multi-Screen solution, powerful Quad-Core or lower capacity Processor Unit, Small or large sized Screen on dashboard, the Sunit-computers serves always common technology in regards of Interfaces, Cables, Antennas, Positioning, Short- and Long-range broadcast communications.

Therefore the Logistics and Fleet management applications are uniform on every and each vehicle.

Whether the purpose of Duty-role alters and the In-Vehicle Computer requirements are as well altered, the upgrade (or downgrade) of Computer is ease to compliance for new demands by just swapping the CPU.

Whether the purpose of User-role alters causing alter Computer requirements, the upgrade (or degrade) of Computer is ease to compliance for new demands by just swapping the CPU.

COMPATIBILITY BETWEEN GENERATIONS

After a long lifetime, it is usually time to replace your computer as the software requirements change. We need a newer operating system, better graphics, etc. SUNS Computers are always backward compatible so only the CPU has to be replaced and the existing components can be used.

Purpose-tailored
Design and development for
Original Equipment Technologies

Sunit serves OEM and Semi-OEM Industry with purpose designed Computing technology.

The industry in this segment build usually fleet / equipment's for appropriated service and the offered technology is highly related to serve the daily work on business.

Sunit technology offers wide range Technical Characters for IoT, User Interface, Long– and Short Range Communications but as well Industry Equipment related interfaces.

Up-to-date Computer technology increases the service for modern logistics with advanced Automation and Efficiency.

The Computer technology shall meet the Entrepreneur requirements and contribute to its business.

Our recourses on Design and Development consist Industry Systems as CAD-Catia.

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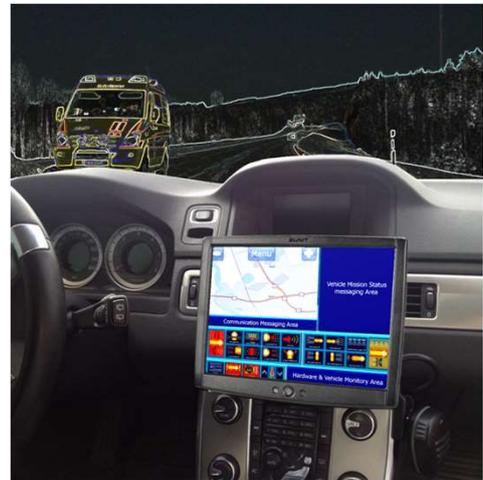## Versatile Computing For Mission Critical Service

Sunit Computers offers reliable and powerful technology for Mission Critical Service, and in combination with Sunit-tailored applications, we offer the most considerable field service computers.

Our design on Screens, CPU and Side Parts sets strict value to traffic safety. Especial, we have highlighted the possible risks for personal injuries associated with possible accidents.

Compact design, tough technology and the vehicle compliant design are crucial safest design for dashboard fittings.

Police Patrol Duty

> ➤ MISSION-CRITICAL APPLICATIONS
> ➤ FLEET-MANAGEMENT
> ➤ MAPPING & NAVIGATION
> ➤ VEHICLE STATUS & CONTROL
> ➤ BLUE LIGHT CONTROL

Since 1999

Helicopter Duties

COMPUTER TECHNOLOGY
for
LIFE-SAVING & GIS-AERIAL APPLICATIONS
Since 2003

Technology to all mission critical fleet

The Communication is the Key for effective public safety. The equipment shall actively serve the crew and back-office with reliable technology and exploit the fleet of vehicles for purpose in duty. Therefore we utilize the latest technology in communication and use on call Dual or Tri Modem technologies.

By common Computer technology the quality of Mission Critical duties intensifies significantly. It makes possible intelligence in vehicles and increases the vehicle efficiency.

Tens of thousands of Sunit vehicle computers serve in Mission Critical duties.

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SUNIT offers an effective Police service platform. Modern Patrol car is an office with wide range of demanding applications – In-Car Office, Operational Service, ANPR, Traffic Video surveillance, Blue-light control, Broad and Local Communications, Multi-Screens.

Patrol vehicles since 1999

Sunit have served Mission Critical and Law Enforcement cars in front of the market and our technology have all time created to the market new thinking, new technologies and new Service models.

Sunit computer have since 1999 served cost-effective solutions for authorities in Traffic Enforcement patrols.

Integrated communication, navigation, vehicle interfaces, graphical interfaces, video technology and CAN interface control (such as blue lights, interior equipment, etc.) have proven to be reliable and minimum room- and energy consuming solutions. In addition, our customized open platform technology guarantees the most optimal service for long-term use.

It is significant that the Patrol car is in duty by alert, when the mission takes in place. Our liability as supplier of Information Platforms, is to ensure that tools for mission lasts in every event without any limitations.

In-car integration

As a part of the road safety aspect the police cars maintains to keep dashboards clean from all unnecessary devices. Today modern cars offers to utilize the car's original screen for Mission Critical applications. Sunit is at the front line of development as well as investing in technology since very early moment.

**SUNIT PATROL-ASSIST
TRAFFIC ENFORCEMENT**
- Video surveillance • ANPR • Radar • On-The-Fly Capturing

SUNIT Patrol-Assist Traffic Enforcement system simplifies workloads significantly for Authorities on roads and increases the quality and safety of Duty.

Sunit Patrol-Assist is an Traffic Enforcement Video-application with ANPR. It is a cost-effective solution for all Traffic Enforcement patrols.

Sunit Patrol-Assist have functions for Speed-measurements, Event-registrations, ANPR-Analyses and Traffic Surveillance Video recording.

The Application is connected with camera interfaces for Traffic Enforcement, IR-camera for Night-vision plus Cabin-camera interface and eventual Reversing camera. In addition, the Traffic cameras are connected with Radars.

Onto Video stream adds common information as Patrol-Speed, GPS-data, Time, Patrol-ID, Voice, Target-vehicle Speed, etc. The labelled information is synchronized with Camera, Time and GPS.

On drive, the authority can easily insert "MOBs" ("Man-Over-Board" -events, e.g. on Chase-operation) onto the Video, and are easily founded on Playback.

Recognized vehicles are saved in memory as a Photo with Geo-data.

Sunit Patrol-Assist have inbuilt interface toward Traffic-Author and Police Authorize registries. Each Hit on Traffic Author registry is noted on screen. The Hit is as well labelled on Video as "MOB".

Further, interface toward Author Application with One-touch function makes easy to reach all information about the targeted vehicle.

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SUNIT Computers have served Rescue and Care 20 years with thousands of vehicles on real-time alert.

The Pre-hospital Care and Rescue are most critical service sectors within Public Safety. The Vehicles are purpose build for life-guards and the purposed time of rescue is short, every minute is critical.

On-Demand communication and Working safety are the critical aspects for life-guard duty.

It is crucial that Mission Critical Authority has 100% reliable support on utilized hardware.

A Tri-screen computer platform offers services for driver and as well built-in applications for emergency-services and care.

Common Computer technology on various types of rescue units, with tailor-made technical sub-solutions, is the most reliable long-trerm usability.

1x CPU – 3 x Screens

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Nowadays it is 15 years ago Sunit started In-Corporation in Norway with Locus A/S serving Mission Critical Authorities. On that time there have grown the Service from single Fleet Management to Service's as Pre-Hospital Care and Fire-Rescue.

It is founded that there is In-Vehicle computers having moreover 80.000 Hrs. in day-around service.

It proofs that investing to right products and excellent applications, the Life-safety is In-Mission and Citizens can expect care and presence in case they face need of live rescue.

Thanks for Fruitful Corporation all People in Sandefjord and rest of Norway!

Sunit-Artet
1999

Sunit-CLASSIC
2005

Sunit-F2 Serial
2013

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Fixed-mount Computers For Demanding Logistics And Haulage Since 1994

Heavy Transport

Mission Critical

COMPUTERS SUNIT

The use of Computers by Road-haulage started 1994 by Finnish Forest transports. The efficiency of Logging increased significant by using On-Board computers connected on Telephone network and using Map-application for exact location of Log-piles. Just-On-Time deliveries become safe. Short afterward Fuel-transports founded similar solutions for their Pull-Logistics system plus the Safety was notable improved. Nowadays Heavy Vehicle industries as Energy, Mining, Constructions, Waste, etc. utilizes the On-Board Computer as well for Vehicle economy and Mobile Office purposes.

Our Industry
The Logistics And ERP

Entrepreneur Resource Planning and Supply Chain are the Key's of effective Fleet-management.

It streamlines the Fleet-Management and intensifies the Logistic Economy significant.

Sunit Computers contributes the Fleet Efficiency continuously hundreds of thousands of hours and it is obvious that our product suits for investments, particularly for challenging vehicle assignments.

Value-add Into Logistics

Our Value is highly connected with our Clients Supply-Chain day-around Business. We offer products and service with Open Architecture computing technology.

Technology suits excellent to the vehicle computing where the Logistics, Supply Chain and Fleet management demands intensive and effective ITC-solutions for constant communications.

Tough and Smart Computer tech is crucial for Fleets that claims to keep costs down whilst running on day-and-night service.

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SUNIT In-Service Vehicles

Today the utility of On-Board Computer is precondition for On-demand Maintenance and Logistics. Therefore they are Tough and Demanding group of Computer users.

The Entrepreneur operates close-to Critical environments like airports, In-traffic and Urbans.

Safety and reliability are taken for granted.

Computers shall serve the Operator delicately and precisely with Applications for Logistics, Fleet-management and Vehicle-device Managements.

IoT utilizing Integrated CAN, GPS, Sensor-interfaces and Communication are major requirements on Computers.

Road Maintenance and On-Demand Logistics service since 1994

SUNIT Computer technology is one of prime-companies within road-marking automatics and road-maintenance in general.

Every day thousands of tonnes fuel is rolling safe on Airport Apron areas and deliveries from refinery to stations.

The In-Vehicle computer plays a key-role in regards of Track and Trace, Communication and Supply-Chain Plans.

SUNIT Computer-technologies serve the Fleet All-Day with tailored and globally certified FIXED-Mount technology.

Terrain and Off-Road Machinery is our "country of origin"!
Since 1991 Computer technology to tough and hard-to-satisfy Environments.

From Foresry to Mining to Tanks

30 years in Machinery and Heavy Equipment's, our technology have been identified as a trusted product for the most demanding machine-environments.

In the background there is our superior electronics and geometry designed impact protective mechanics connected to strict Quality Assurance discipline.

First in the World For Terrain and Off-roads

When cut-to-length logging was on breakthrough in the 80's, it required courage works by engineers making the industry to produce and efficient and environment-saving technology.

It was a premise for Computing technology within demanding environment.

The founders of Sunit Oy are several times awarded in their open-minded and determined work to brought technology to forest and terrain industry.

SUNIT Computer technologies serves on Terrain for utilizations where Heavy Environmental Impacts are familiar realities for our products.

In mining industry, serving on extremely harsh environment and have high downtime cost's, SUNIT Computers are successfully serving these critical vehicles.

Nowadays SUNIT Computers run more than 10 years continuously and the Users comment "computers just run – they are there" tells the quality of Product.

Excavation Fleet

SUNIT Computer on excavation vehicles serve the "Both ends" on Vehicle.

➢ Fleet-Management & Dispatching
➢ Safety Application on Highway-Transports
➢ Digitalized Excavation Process
➢ Blasting-Analyse & Reports
➢ Forecast's of Equipment's Maintenance occasions
➢ Utilize of One CPU & Dual-Screens on Dashboard and Excavation Control-Cabin

In-situ Fleet-management

Serving In-Situ vehicles, the Computer shall withstand the environmental extremes and run likely without the driver's attention being directed to the computer by any action other than associated with his job. SUNIT Computers serve managements:

➢ Real-time Dispatching & Material handling
➢ Vehicle Safety Alerts & Video Applications
➢ Vehicle economy Applications

Open Architecture Computing = Hardware-Independent Applications

Dump Trucks, Excavators, Loaders.

Thanks to our almost 30 years time on Harsh-environment machineries In-Situ vehicles are kept served with reliable Products.

Terminal Logistics and Warehousing are Keys for effective Supply-Chain.

Working surroundings with stress-impacts requires computers for Equipment's that are efficient, tough and compact but as well Ease-to-Operate.

Terminal, Warehouse and Cargo

Terminal and Warehouse management utilize computers intensively for interactive operations.

At the same time, local communication is frequently used for server application interfaces.

Computers with, excellent Screens and purposes tailored capacity for operating environments brings the best tools in Just-on-time logistics.

Harbors, the Industry in front of Intelligent IoT

Terminal and Warehouse management utilize computers intensively for interactive operations. At the same time, local communication is frequently used for server application interfaces.

Integrated communication devices with the latest broadband technology is a prerequisite for stable Operations.

Intelligence in Harbour with utilization Computer technology for Container identification as well as storage positioning information brings significant increase of Logistics-efficiency.

Utilizing Industrial computer technology designed for harsh environments enables high utilization and high-quality information processing.

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Modern Public Vehicle offers comfort to the Passenger. Free Wi-Fi, ability to see information and live videos on Screens are appreciated. Meantime the Driver shall have his connection devices to the Back-Office and Screen for his purposes.

The Multi-Screen Computer offers here excellent technology for these aspirations.

Multi-Screen service

Tri-Screen technology, Wi-Fi with MIMO, Serial-connected Passenger Screens offers the Cost-effective solutions to the Public-Vehicles.

As well, in case the vehicle already have installed CCTV's SUNIT Computer offers High-quality connections with Display-Port / HDMI.

Of course, the Fleet-management –applications are used as a Driver-HMI.

One CPU for Multiservice, that is what Sunit Computer technology offers to the Public Fleet.

Open Architecture computer to Taxi Dispatching

The Diversity of TAXI-Dispatching increases rapidly and the upgrade shall utilize the retained Hardware.

An open Architects makes both maintenance and service, development and deployment easier, and hence the cost of modernizing of Dispatching-System is reduced.
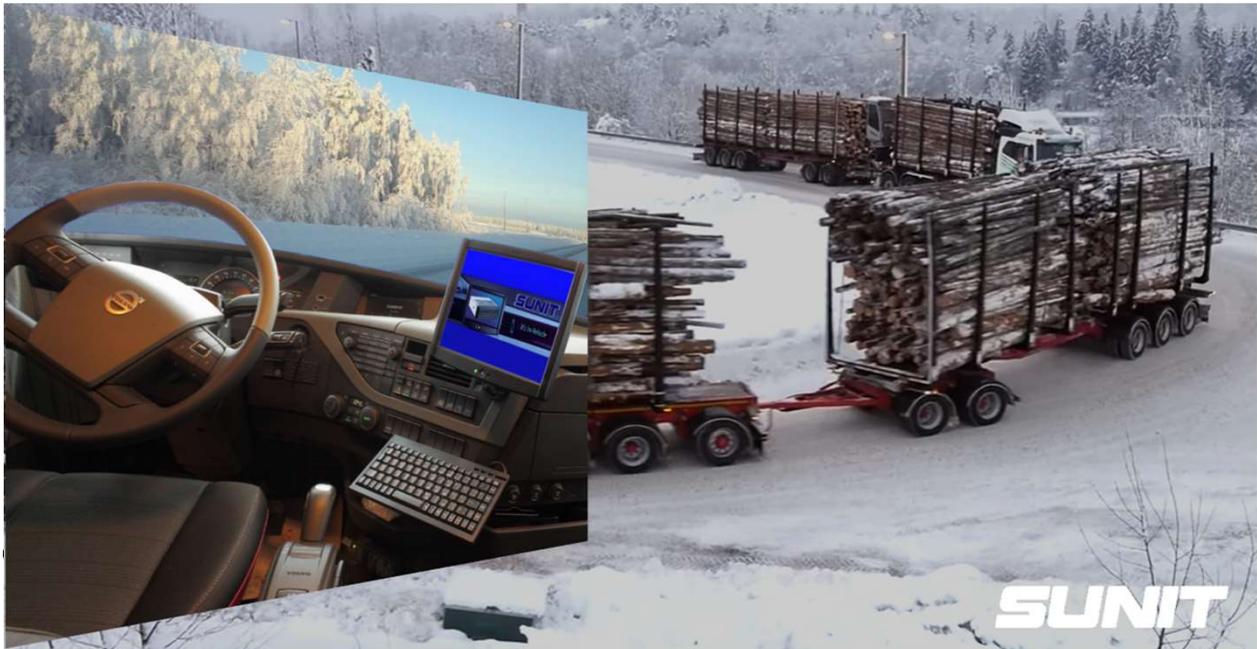

TAXI-Dispatching Applications varies according to Fleet Service organization.

Sunit offers the computers from All-In-One PC to most powerful processing capacity in the market.

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Fixed-Mount technology is Safe and Economical

Fixed-Mount Computer is designed with smooth and tough construction and high performance processing whereas the Power-utilization is optimized for efficient and Core-power monitored. The Wireless networking technologies are integrated for safe communication in all conditions. The Satellite positioning technology have 3-dimensional ADR (Automotive Dead Reckoning) which warrants accuracy location in urban and weak GPS-connection areas.

The screens are designed in a such way that the dashboard is not strained for unnecessary faults. The Screen-connection technology enables the combination of Multi Screen demands without additional CPU installations.

The Power-control is connected to the Vehicle Ignition and the computer is ready for Streamline operations as Ordering and Reporting purposes. Start the Engine and the computer is ready for service.

The Fixed-Mount is safe. Number of working organizations creates a rule-books for personnel that obliges them on best knowledge to ensure that the sensitive information is cowered and not jeopardizing the loss of computers due to risk of removes. Fixed-Mount Computer is never removed and the information-safety is secured.

The Fixed-Mount is safe. Increased traffic rhythm sets lot of challenges to the Professionals and the Computer technology shall not jeopardize the personal injuries in case of accidents. Therefore Fixed-Mount technology is not ruggedized, it is tough and smooth pursuant to Traffic standards.

The Fixed-Mount is safe. Vehicles and Traffic are precisely regulated and the road users are obligated to follow them faithfully. The supplier of technology and products are subjected to follow these regulations to support for your entrepreneur. As a proof for this, the products are globally certified for In-Traffic use.

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Quality Management QA/QC - GMP

| AIM | SUNIT | ➤ 10⁺ Years Field-service ➤ 5⁺ Years MTBF |

FUNDAMENTAL STANDARDS

ISO — UNECE — CENELEC

| ISO 16750 Road vehicles — Environmental conditions and testing for electrical and electronic equipment | REG. No. 10 Approval of vehicles with regard to electromagnetic compatibility | EN 50155 Railway applications Electronic equipment used on rolling stock |

CLIENT Standards & Requirements

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

Quality is integral part of us. Our Clients are successful in his Entrepreneur and there is no doubt of expectations for the highest quality in all circumstances.

The average life-time of ICT-system is mainly 10 years Logistics and Supply Chain business.

We demand on our products perfectly durable service to our clients ICT-investment.

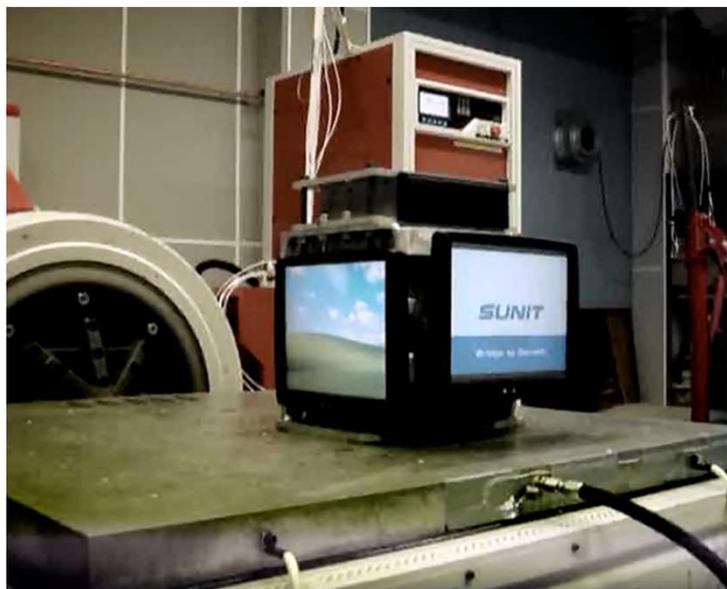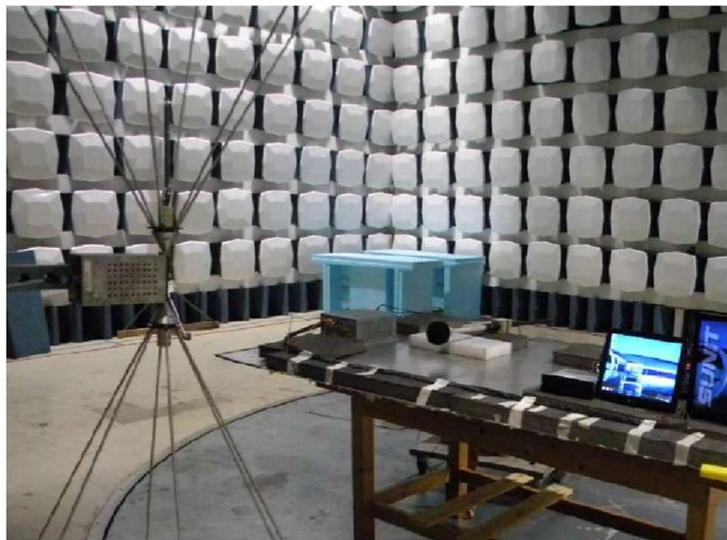### QA/QC and
Good Manufacturing Practice

With our QA/QC Management and Good Manufacturing Practice we encourage a culture of innovation, responsibility and rectitude to ensure the continuous improvement of accountability in front of our Clients.

We strive to be every Client's first choice supplier today and tomorrow and the Quality of service is a natural part in all cooperation forms.

In Product technology and Manufacturing process we follow all of Vehicle industry Quality Standards and we effort heavily to keep us in front of reliable quality provider.

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An Open and Transparent support for Client Enterprise

The Enterprises in Industry develops rapidly. New ICT-solutions and applications takes in place frequently.

Especially the Broad communication, Graphic User Interface, Vehicle-economy and Location-based Service areas are objects for Progressive and sophistic developments.

Intelligence on Industry expands to new unprecedented areas, the Internet of Thigs brings new opportunities.

Our QA/QC includes therefore the R&D-Support of Clients development process to help optimized and long-term enterprises.

Our Partners, who serve the Clients with applications wants continuously keep in front of the technology.
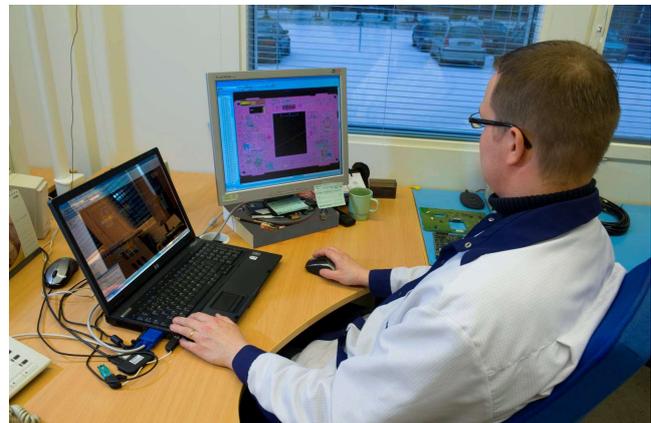
Our long-term experience in M2M-technology, Cloud-Computing and IoT-technology brings us to the front of skills in relation with Computer technology.

Our RnD consist Partner & Client support who are simultaneously product development personnel. This concept forms the best partner collaboration that serves the Client with the best possible quality on both hardware and application point of views.

We run large-scale In-Field tests, and therein our partners' experience and opinion are important information for us and our supplier partners.

For almost 30 years, we have found that this concept of process and method for new technology conducts to the safest applicability, especially in tough environmental industry markets.

As well, we continuously utilize our Quality Laboratory for verifying and Stress-tests of the limits.

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CE FC △C
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ISO 9001
BUREAU VERITAS
Certification
N° FIHSK10299467A
BUREAU VERITAS
1828

√ REACH
2006/121/EC
S

√ RoHS
2011/65/EC
S

WEEE
2002/96/EC
S

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