

SANmilitary Product portfolio

Digital Data Recorder (DDR) Debriefing Software

Digital Data Recorder (DDR) Debriefing Software is a PC based software application, utilized for archiving, querying according to certain criteria and playing back the data recorded by Digital Data Recorder (DDR).

Features

- * Fully integrated with DDR
- * Archiving fleet records
- * Querying according to pilot's name, date of flight and flight parameters
- * Playing back recorded video and audio
- * Playing back recorded 1553 bus data
- * 3-Dimensional depiction of flight over terrain
- * Displaying 2-Dimensional flight path on map
- * Synchronized display of all recorded data
- * Customization for target platform
- * Displaying wingman flight



Precise Position Determination Computer

Precise Position Determination Computer is designed to determine the position of the air vehicle by running a fusion algorithm on DTED-2 map, Altimeter and INS data. By evaluating the land pattern seen below, PPDC can calculate the direction and position of the platform even if GPS signal is unreachable or invalid.

Features

- * Intel i7 3517UE Processor
- * MIL-STD-1553 BC,BM,RT
- * ARINC 429 Rx/Tx
- * CAN/RS422/RS232
- * RS343,RS170,VGA and DVI Video Out
- * Gig Ethernet, USB
- * 1 second power hold-up
- * MIL-STD-810
- * MIL-STD-461
- * MIL-STD-704

Weight : 4.25Kg

Size : 230mm/150mm/120mm DZUS Compatible



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ACMI System

ACMI System is mounted on F-16 and similar airborne platforms in external pod form and provides efficiency in A/A and A/G training of pilots and rehearsals..

Features

- * Long range and high throughput RF data link
- * High number of participant support
- * Encrypted communications and data recording
- * High fidelity weapons and CM/ECM simulations
- * Airborne data bus integration (MILSTD-1553)
- * Autonomous TSPI generation
- * Real-Time Kill Notifications (RTKN)
- * Safety warnings
- * Post Mission Interoperability
- * 2D/3D mission planning, live monitoring and post mission analysis



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Airborne Computer System

Airborne Computer System (ACS) is a high processing and video performance mission computer hardware that operates under military conditions having MIL-STD-1553, ARINC 429 and RS423 avionics data interfaces. Airborne Computer System can be used for 3D visual applications such as moving map software. ACS also has data, video and audio recording capabilities. Adaptations to various air, sea and land platforms are possible.

Features

- * Capable to operate 3D applications such as moving map
- * Video/Audio recording and playback capability in MPEG4 format
- * Recording and playback capability for FLIR videos
- * Control and recording capabilities for avionics data buses (1553 and ARINC)
- * Built in test capability (BIT)
- * High performance processor background
- * Low power consumption
- * Compatibility with military standards Processor
- * Board : PC / 104 Express
- * Processor Chipset : Intel Core 2 Duo SP9300
- * Speed : 2.26 GHz
- * RAM : 2 GB DDR3
- * Graphics Chipset : Up to 256 MB
- * CRT : Analog VGA
- * LVDS : Dual Channel
- * USB : 8X USB 2.0
- * Ethernet : 1000 BaseT
- * Serial : 2X RS-232 or RS-485 port
- * SATA : 2X SATA port
- * Audio : 5+1 input, output, mic Solid State Disk (SDD)
- * 4 GB internal Solid State SATA disk
- * AVIONICS BUSES
- * 2X MIL-STD-1553
- * 3X TX and 6 RX ARINC 426 Video / Audio Input And Record
- * X NTSC 720x430 30 fps or PAL 720x576 25 record capability
- * Audio input interface for audio overlapping with recorded video



Options

- * Linux operating system (Real Time)
- * 128GB / 256GB Solid State SATA disk
- * 2/4/8/32 GB military grade removable flash memory
- * RS-170 video output interface
- * Mission Slew Controller operated using with RS-232 interface
- * Platform mounting table

Video Output

- * 3X STANAG 3350 Class A RGsB Removable Memory
- * Military grade 16 GB removable flash memory

Maintenance Interface

- * 1X VGA
- * 3X USB 2.0
- * 1X Gigabit Ether

Other Interfaces

- * 2X independent RS232 serial interface to be used for left and right hand mission slew controllers (trackball)

Power Characteristics

- * Capable to operates with 16-32VDC broad range feeder voltage without any performance loss



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Geospatial Intelligence Management System (GIMS)

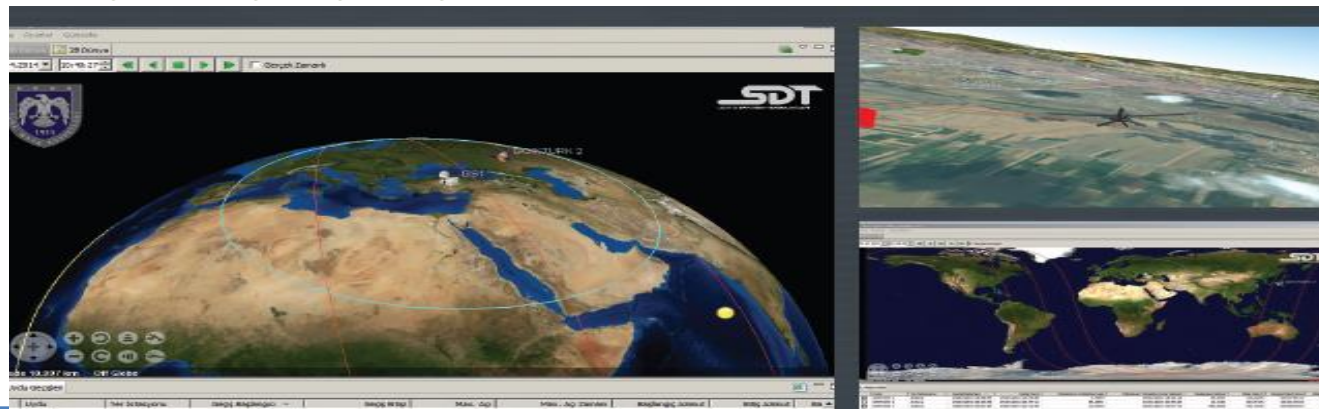
Airborne and space based surveillance and reconnaissance are essential for successful military missions. Such capabilities are critical for troop protection, situational awareness, mission planning, damage assessment, and others. Geospatial Intelligence Management System is a modular, end-to-end, comprehensive solution for Intelligence, Surveillance and Reconnaissance (ISR) requirements, from imagery and video acquisition to Geospatial Intelligence (GEOINT) dissemination..

Features

- * Service request and task management
- * Image and video ingestion
- * Archive, manage and serve image and live video stream
- * Real time and offline image analysis and exploitation
- * Ability to create annotations on streaming video
- * Fusing image and video with other intelligence sources



The system is designed to produce Geospatial Intelligence by real-time processing and integration of the images delivered by a variety of space, airborne and ground based sensors such as Electro-Optics (E/O), Infra-Red (IR), Video. The exploitation and dissemination process employ a variety of automatic and semi-automatic tools essential for quick detection, identification and acquisition of time-critical targets. Unmanned Aerial Vehicles (UAVs) gather huge amounts of video data but it is extremely labor-intensive for operators to analyze hours and hours of received data. Data collected from UAVs must be reviewed quickly to support real-time operations in the field, whereas it is analyzed in more depth and over longer time frames to support mission planning and intelligence gathering.



SANmilitary Product portfolio

Wideband Microwave Receiver

Wideband Microwave Receiver is a high performance, super-heterodyne, RF front-end unit that converts the incoming RF signals with frequencies between 0.1 GHz to 18 GHz to signals with fixed IF frequency of 1800 MHz with 1GHz bandwidth for wide-band channel and 160MHz with 10/20/40/80 MHz selectable bandwidth for narrow-band channel. Frequency coverage can be extended up to 40 GHz using optional external down-converter unit.

Features

- * 0.1 - 18 GHz Input Frequency Range
- * 1 GHz Bandwidth Wide-Band IF Output
- * 10/20/40/80 MHz Bandwidth Selectable Narrow-Band IF Output
- * High dynamic range
- * Low spurious & phase noise response
- * Sweep and Scan Tuning Modes
- * Manual Gain Control
- * Built-In-Test & Self-Calibration Capability
- * Ethernet 1000 Base-T
- * 6 U, 19" Rack



Application Areas

- * Electronic Intelligence (ELINT)
- * Communication Intelligence (COMINT)
- * Radar Warning Receivers (RWR)

Wideband Digital Receiver

Wideband Digital Receiver measures parameters of radar signals with high precision and accuracy. The receiver accepts IF inputs centered at 1800 MHz with 1GHz bandwidth for wide-band channel, at 160MHz with 10/20/40/80 MHz selectable bandwidth for narrow-band channel and generates digital Pulse Descriptor Words (PDW) for radar signal analysis and identification. This unit can be synchronized with Wide Band Microwave Receiver the RF front-end provided. Number of concurrently processed narrow-band channels can be optionally increased up to three.

Features

- * Concurrent PDW Generation from Wide-Band & Narrow- Band channels
- * Accepts Wide-band Channel IF Input at 1800 MHz
- * 1000 MHz Processed Instantaneous Bandwidth at Wide-Band
- * Accepts Narrow-Band Channel IF Inputs at 160MHz
- * Up to 80 MHz Processed Instantaneous Bandwidth at Narrow-Band
- * Automatic & Manual Detection Threshold Control
- * Sweep and Scan Tuning Modes – with RF Front-End Synchronization
- * Built-In-Test Capability
- * Ethernet 1000 Base-T
- * 6 U, 19" Rack



Application Areas

- * Electronic Intelligence (ELINT)
- * Communication Intelligence (COMINT)
- * Radar Warning Receivers (RWR)

SANmilitary Product portfolio

Sensor and Environment Simulator (SENSIM)

- Physics-based sensor simulation infrastructure for research and engineering studies (sensor development, test, ATR/ tracking algorithms development, etc.)
- Simulation suit for sensor (EO, IR, Radar, etc.) development environments
- Scene generation tools for synthetic sensor image/video output for sensor applications development and test
- HWIL engineering support environment for IR missile seekers, SAR, and other sensors

Features

Sensors

- * EO
- * Infra-red (SWIR, MWIR, LWIR)
- * Radar (basic, MMW, SAR)

Environments

- * Atmosphere
- * Sea Surface
- * Terrain

Sensor Platforms

- * Missiles
- * Aircraft
- * Ground Vehicles
- * Surface Vessels
- * Satellites

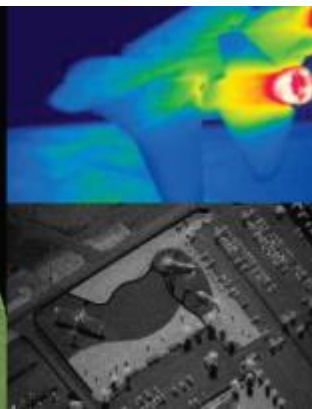


Targets and Countermeasures

- * Aerial targets
- * Missiles
- * Ships
- * Ground targets
- * Chaff/Flare, ECM

Products include

- * 3D Content (targets, terrains)
- * Built-in material database
- * Material mapping tool
- * Scenario planning tool
- * Sensor modules
- * Raw data (reflections) generation tool
- * Image/scene generation tool (+real-time option)
- * Signal generation system (radar)



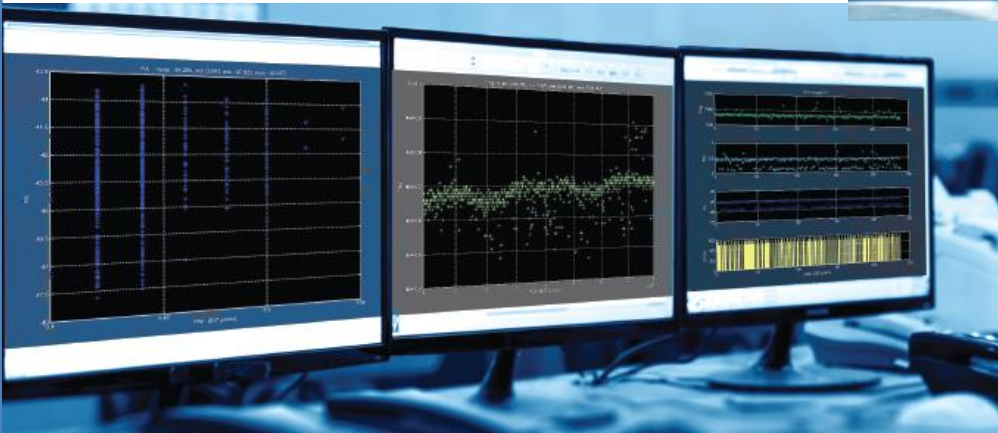
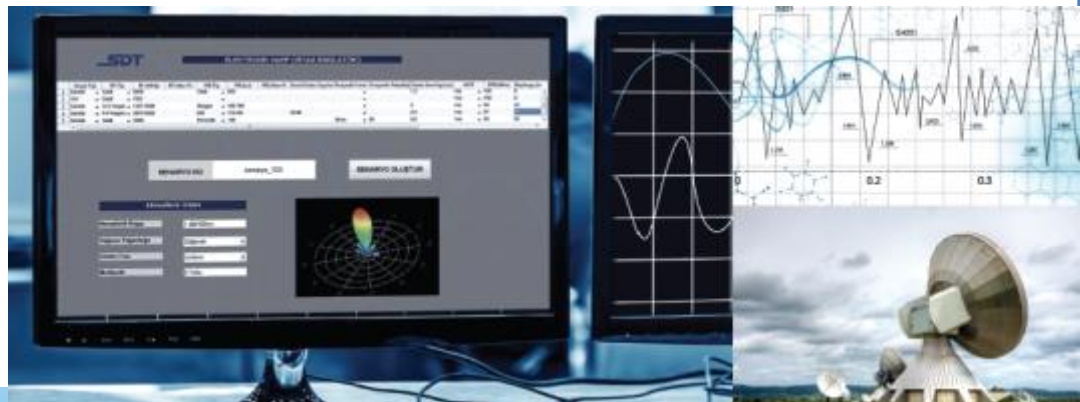
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Electronic Warfare Environment Simulator (EWES)

EWES is a PC based simulator software, utilized for creating Pulse Descriptor Words (PDW), I/Q Data and/or IF data of emitters according to their defined parameters, creating scenarios by using these emitters, modelling the effect of environment and achieving the emitters and scenarios.

Features

- * User interface utilized for defining the emitter parameters and creating scenarios with these emitters
- * Defining the PDW format
- * Constant, Jitter, Stagger, Dwell Switch and Periodic PRI types
- * Constant, Agile, Hopping(Pulse to Pulse), Hopping(Pulse Group to Pulse Group) and Periodic frequency types
- * Circular, Sector, Raster and Conical antenna scan types
- * Antenna beam shape definition
- * Clutter modelling
- * Atmospheric loss modelling
- * Two dimensional plots scenarios and/or emitter's parameters



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Shooter Training Simulators

Shooter training of military and law enforcement personnel. Training simulators include systems from basic training for rifle, gun, machine gun and sniper to joint and special operations training. Simulators are offered for both classroom training and outdoor training (portable systems).

Features

- * Scenario preparation, execution and monitoring
- * High performance image generators
- * Projection systems
- * Virtual reality goggles
- * Human animations and crowd simulation
- * 3D visual models
- * Scenario terrains and in-door training area models
- * 3D surround sound simulation
- * Shooting simulation
- * Binocular/monocular simulations
- * Recording and re-play
- * Performance evaluations and reporting



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Ground Data Terminal System yvt-100

Data Link System includes real time data transfer between air vehicle and ground control systems. DLS includes two main parts; Air Data Terminal (ADT) and Ground Data Terminal (GDT). The Data Link System transmits all useful load data from Air Data Terminal to Ground Data Terminal and command and

Features

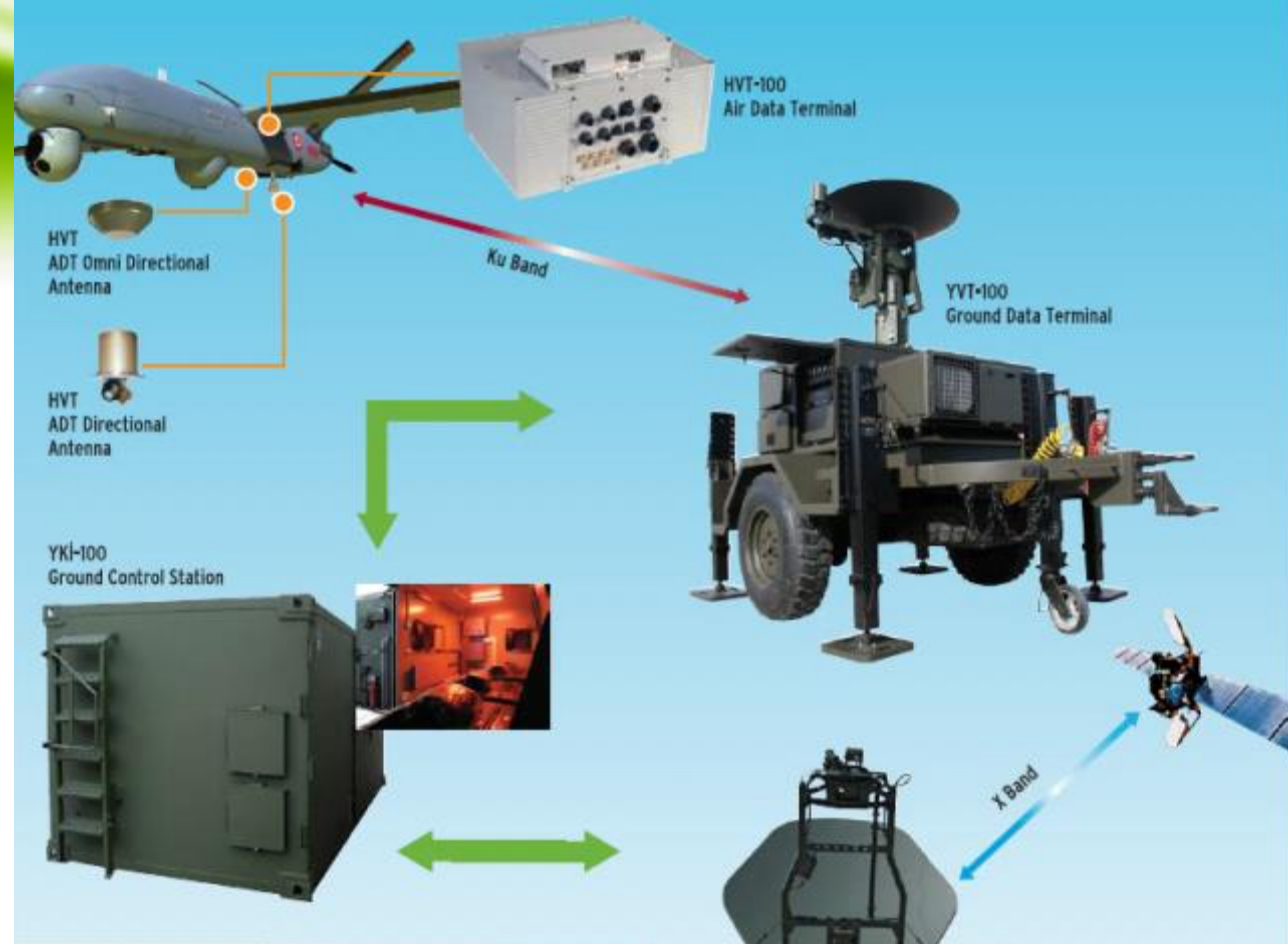
- * Interoperability : STANAG 7085
- * Operation Principle: Line of Sight (LOS)
- * Electromagnetic Compatibility:
 - MIL-STD-461E
 - MIL-STD-464
- * Environmental Compatibility:
 - MIL-STD-810F
- * Software Compatibility
 - RICA/DO-178B Level C
- * Built in Test (BIT) Functions
- * Redundancy Upon Request



Specifications

- * Ground Data Terminal Antenna
 - Reflector: 1,2 Meter Carbon-Fiber
 - Movement: Azimuth 360° Continuous, Elevation 90°
 - Auto Tracking
 - Omni Directional Antenna
 - GPS, Digital Compass
- * Operating Frequency:
 - Ku Band
- * Data Rate:
 - Uplink : 200 Kbit/s
 - Downlink : up to 44.73 Mbit/s
- * Modulation Type: BPSK (SS), BPSK, QPSK
- * Link Security
 - Direct Sequence Spread Spectrum (DSSS)
- * Range : 200km LOS
- * Interfaces : RS-232, RS-422, Gigabit Ethernet
- * Bit Error Rate : 1E-06
- * GDT : Trailer-mount or Integrated with Ground Control Station (GCS)
- * Power Distribution System for GDT
- * Uninterruptible Power Supply (UPS) for GDT

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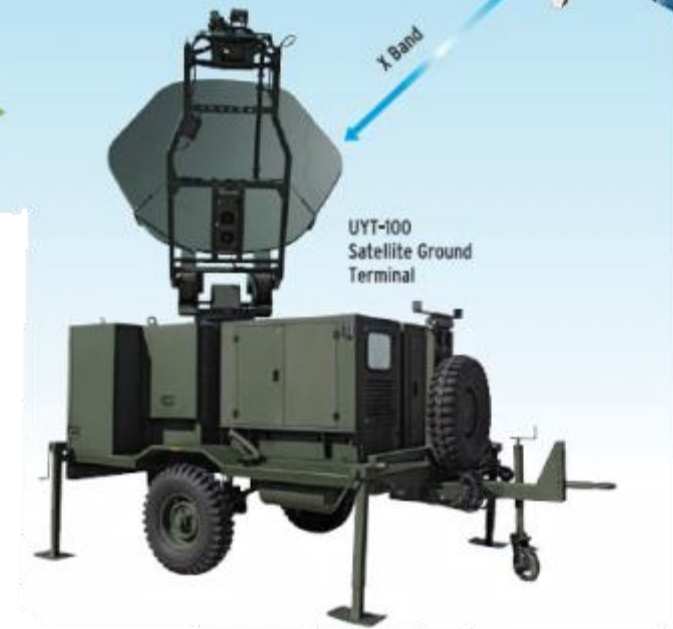


Data Link System

Data Link System includes real time data transfer between Air Vehicle and Ground Systems (Ground Control Station and Transportable Image Exploitation System). Data Link System transfers data, which are, add up by systems on air vehicle to ground station and transfer control data from ground station to systems on air vehicle. Data Link System (DLS) includes two main parts; Air Data Terminal (ADT) and Ground Data Terminal (GDT).

Air Data Terminal (ADT) transfers data addend from Avionic Systems on Air Vehicle and from useful data (camera, radar etc.) to Ground Systems and transfer ground control command data from Ground Control Station to Avionic System in specific bandwidth as real time.

Ground Data Terminal transfers data from Air Data Terminal (ADT) to Ground Control Station (GCS) and Transportable Image Exploitation System (TIES) and transfers data from Ground Control Station to Air Data Terminal on Air Vehicle. Moreover, Data Link System (DLS) shall transmit its own states and modes to relevant units for monitoring from Ground Control Station (GCS).



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Flight Test Instrumentation and Measurement System

Flight Test is a measurement process taken under flying conditions from various air vehicles (i.e. aircraft, helicopter, UAV, missile etc.) to collect data needed for flight performance checks, system certification and intermittent failure analysis. Flight Test has a broad application in aviation field during production, upgrading, or major modification phases and diagnosing of intermittent failures, which occur only in flight.

Flight Test requires mainly three sub systems:

- O/B System (mounted on air vehicle)
 - Data Link
 - Ground Station (Flight Test Center -FTC)
- O/B system collects data from parameters to be measured by using various sensors and data acquisition system located on the air vehicle. Then this data is transmitted to the ground station via a telemetry transmitter. Ground station continuously receives and converts the RF signals to a proper data format. Formatted data is recorded and analyzed at the same time by the FTC.



FTC CAPABILITIES

- * Customer oriented telemetry system design & integration
- * Establishment of telemetry systems and ground stations
- * O/B instrumentation, measurement and calibration
- * Definition proper transducers and design interface requirements
- * Design the entire system & definition HW-SW requirements
- * Production/procurement of HW and SW needed
- * System integration on various platforms
- * Design and implementation support to customer during ground & flight tests
- * Documentation
- * Training
- * Long term logistic support

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Air Data Terminal HVT-100

Data Link System includes real time data transfer between air vehicle and ground control systems. DLS includes two main parts; Air Data Terminal (ADT) and Ground Data Terminal (GDT). The Data Link System transmits all useful load data from Air Data Terminal to Ground Data Terminal and command and control data from Ground Data Terminal to Air Data Terminal full-duplex digital in Line of Sight (LOS).

Features

- * Interoperability: STANAG 7085
- * Operation Principle: Line of Sight (LOS)
- * Electromagnetic Compatibility:
 - MIL-STD-461E
 - MIL-STD-464
- * Environmental Compatibility:
 - MIL-STD-810F
- * Operating Frequency : Ku Band
- * Data Rate
 - Uplink 200kbit/s
 - Downlink up to 44.73Mbit/s



- * Modulation BPSK (SS), BPSK, OPSK
- * Link Security Direct Sequence Spread Spectrum (DSSS)
- * Range 200km LOS
- * Interfaces RS-232, RS-422, Gigabit Ethernet
- * Bit Error Rate 1E06
- * Redundancy Upon Request

Antenna Specifications

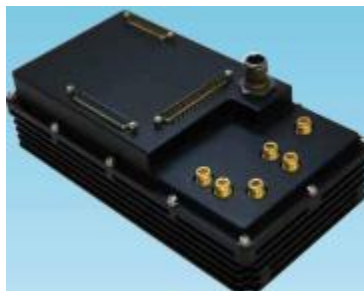
- * Airborne Directional Antenna
- * Movement Azimuth 306° Continues Elevation 20°
- * Software Compatibility - RTCA/DO-178B Level C
- * Built in Test (BIT) Functions

B-013T CONTROL UNIT

The Control Unit initializes all sub systems and manage communications with them and neighbour systems for Airborne (UAV, aircraft, helicopter), Naval and Land based Platforms. The Control Unit has the ability of sensitive target tracking in 3D space. It has the capabilities of listening to the external messages from Serial and Ethernet interfaces, capturing, executing and switching them to different interfaces based on pre—defined configurable filters.

Features

- * Configurable Software
- * Extendable, Flexible Architecture
- * Linux OS
- * Layer-3 Ethernet Switching and filter based forwarding
- * Visual Analysis of Packet Traffic
- * 3D Target Tracking Simulation
- * Configuration and monitoring via GUI
- * Built In Test Capabilities
- * DO-178B, Level C Certifiable Interfaces
- * 6 x Ethernet (10/100 Base—T)
- * 32 x Discrete I/O
- * 5 x RS-422 Serial Interface
- * 1 x RS-232 Serial Interface
- * 8-16 Channel ADC Module



Low Pressure (Altitude) — MIL—STD-810F Section 500.4
High Temperature - Storage— Operation— MIL—STD-810F Section 501.4, ..
Low Temperature - Storage— Operation— MIL—STD-810F Section 502.4
Rain— MIL—STD-810F Section 506.4
Humidity— MIL—STD-810F Section 507.4
Salt Fog— MIL—STD-810F Section 509.4
Sand and Dust— MIL—STD-810F Section 510.4
Acceleration - Structural & Operational— MIL—STD-810F Section 513.5
Vibration— MIL—STD-810F Section 514.5
Shock - Functional Shock— Transit Drop— MIL—STD-810F Section 516.5

Applications

- * Airborne Platforms : UAV, Helicopter, Aircraft
- * Land Platforms : Tracked Vehicles, Firing Control Systems
- * Naval Platforms : UNV, Ship

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MARINE SYSTEM INTEGRATION CAPALITIES

A595 SURFACE SUPPLY AND COMBAT SUPPORT SHIP

As the first military ship built on a national shipyard, the construction of A-595 (Yarbay Kudret Gungor) Surface Supply and Combat Support Ship has capable of 14,000 DWT and 16 knots. Yarbay Kudred Giingor, constructed by SEDEF Shipyard, started in service for Turkish Navy in 1996. Since she has her own external communication and combat management systems, she is capable of being a flagship.

Features

External Communication System

- * UHF Transceivers
- * HF Transceivers
- * Military and Civilian VHF Transceivers
- * Magnetic Loop Antenna System
- * Navigation VHF Transceivers
- * SATCOM System
- * Emergency Communication Equipment
- * User Stations

Data Communication Systems

- * Message Handling System - MHS
- * Teletype Equipment
- * SATCOM

Encryption Systems

- * Voice Encryption Systems
- * Data Encryptions Systems



Internal Communication System

- * Telephone System, Talk-Back System, SP-Telephone System
- * Public Address System, Radio/TV System,

Navigation Systems

- * S-Band and X-Band Radar
- * IFF
- * Gyro, Speed Log, Depth Sensor, GPS, Autopilot
- * Fire, The man over board, Gas, Crypto etc. alarm systems.

Firing Control Systems

Capabilities

- * Electrical and electronic system descriptions in accord with ship construction class
- * System to system interface specifications
- * System to ship interface specifications
- * Antenna arrangement specifications
- * Communication security
- * Communication room and encryption room establishment
- * Cabling and installation
- * Consoles and rack design and manufacturing Fire Control System integration
- * User requirement analysis and FAT and SAT
- * EMI/EMC and RADHAZ Test Procedures and perform the tests

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Product portfolio

ITS-107 Intervalometer Test Set

ITS-107 Intervalometer Test Set is developed to test "SEI-2000 Electronic Intervalometers". It can also be used to test LAU-131/A & LAU-68B/A series electromechanical Intervalometers. ITS-107 simulates the single and ripple firing modes of above mentioned Intervalometers. It has BIT (Built in Test) function.

Its own battery and only one connection to the Intervalometer give mobility to test engineer..

Features

- * SEI-2000, LAU-131/A, LAU-68B/A can be tested with ITS-107.
- * Ripple/single firing simulation
- * LED displays for simulation of firing.
- * BIT (Built-In Test) function.
- * Internal battery powered
- * Also it can be powered and charged by AC mains (115 or 220V AC)
- * Battery charge indication LED's



Capabilities

Physical Features

- * Dimensions : 406x330x174 mm
- * Weight : 6,5 kg
- * Resistance to Environmental Conditions Operation Temperature : -20°C / +70°C
- * Sealing Resistivity : "Splash proof"

Electrical Requirements

- * Voltage Supply : Internal 28V battery powered.
- * Operable & Chargeable with AC mains(115 or 220V AC)

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Product portfolio

Power Distribution and Control Units Land Rover Type Vehicles

Power Distribution and Control Units designed and produced for Land Rover. The System consists of a Power Distribution Unit and a Remote Control Unit.

Units are micro processor controlled and communicate through a CAN Bus.

Features

- * Remote control up to 1 kilometer
- * Situation tracking through RS232 or RS422
- * 2 PT100 based temperature detection feature
- * 6 different choices of operating scenarios
- * Voice and visual (LED) warnings for operator on alarm situations
- * Operator alerted with coded voice and visual warnings
- * Automatic protection on warnings
- * Silencing option for voice warning signals
- * Operating with AC power when DC is not available
- * Manual control in case of system failure
- * 1 grounding terminal
- * Switching capability of 12 AC and DC Power outputs
- * Voltage, current and frequency indicators for AC power.
- * Voltage, current indicators for DC power



- * DC Power Input : 28 VDC 7,7 kW
- * AC Power Input: 220 VAC 26,4 kVA
- * Working Voltage (DC) :18-33 V
- * Working Voltage (AC) :176-265 V
- * Working Frequency :45-55 Hz
- * Working Temperature: -33°C / +55°C
- * Storing Temperature : -40°C / +60°C
- * Working Altitude : 0-3000 m
- * Protection Class : IP 54
- * Vibration
- * MIL-STD-810F, Method 514.5 Procedure I/111 MIL-STD-810F, Category 24, Procedure I

Dimensions

GDB: W: 200mm L: 500mm H: 400 mm

UKB: W: 100mm L: 177mm H: 400 mm

- * Environmental Tests
- * Electromagnetic Compatibility



Power Distribution And Control Units 115 VAC

Power Distribution Units (PDU) are produced as a rack type (3U) for using 115 VAC Ship Platforms.

Features

- * AC Power Input :115 VAC 6.5 kVA
- * Working Voltage :115 V AC
- * Working Frequency : 60 Hz-400 Hz
- * Working Temperature : 0°C +45°C
- * Storing Temperature : -40°C / +70°C
- * Application Type :19" Rack Type (3U)
- * Humidity
- * MIL-STD-810F Method 507.4 Shock
- * MIL-STD-810F Method 516.5 Vibration
- * MIL-STD-810F, Method 514.5 Noise
- * MIL-STD-1474D
- * 115 VAC 6.5 kVA Power Input
- * Switching capability of 9 AC Power outputs
- * 2 Push to Reset type circuit breaker
- * 7 Two Pole Hydraulic circuit breaker
- * 2 Two Pole Push to Reset type circuit breaker
- * Emergency Stop Button
- * Voice on alarm situations
- * Assembling capability compatible with 19 " standard
- * 3U Height
- * Grounding Terminal

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Product portfolio

POWER DISTRIBUTION AND CONTROL UNITS RACK MOUNTABLE DC



DC Power Distribution Units (PDU) are power distribution units that have electrical power and serial channel communication inlet on it and distribute the electrical power needs of units, to be connected to the outlet, in a controlled and protected way.

Power Distribution Units are micro processor controlled and communicate through a CAN bus. They are produced for various vehicles such as Shelters and tire wheels.

Features

- * Low Temperature
- * Storage : MIL-STD-810F Method 502.4
- * Burning : MIL-STD-810F Method 502.4, Procedure-II
- * Humidity
- * MIL-STD-810F Method 507.4 Shock
- * MIL-STD-810F Method 516.5 Vibration
- * MIL-STD-810F, Method 514.5
- * DC Power Input : 28 VDC 5.6 kW
- * Working Voltage (DC) :18-32 V Working Temperature : -30°C / +50°C Storing Temperature : -40°C / +60°C
- * Working Altitude : 0-3000 m
- * Protection Class : IP 40
- * Environmental Tests Electromagnetic Compatibility MIL-STD-461E, CE101, CE102, RE101, RE102 High Temperature
- * MIL-STD-810F Method 501.4 _

POWER DISTRIBUTION AND CONTROL UNITS 220 VAC

220 VAC Power Distribution Units (PDU) are designed and produced for using fixed and mobile platforms. The system consists of a Power distribution Unit and a Remote Control Unit.

Power Distribution Units are micro processor controlled and their feed power and situations of fuse can be monitored in real time.

The system is fulfilled switching output, following up of situation and transferring of occurrence record operation via Ethernet, RS232, RS422, CAN data buses.

Features

- * AC Power Input : 220 VAC 13 kVA
- * DC Power Input : 28 VDC 2.5 kW
- * Working Voltage (DC) :18-33 V
- * Working Voltage (AC) :176-265 V Working Frequency : 45-55 Hz
- * Environmental Tests
- * 220 VAC 13 kVA Power Input
- * 28 VDC, 2.5 kW Power Input
- * Switching capability of AC and DC Power outputs Voltage, current and frequency indicators for AC power Voltage and frequency indicators for DC power Real time tracking feed power



- * Tracking capability of situation of fuses
- * Storing capability of occurrence record
- * Electromagnetic Compatibility MIL-STD-461E, CE101, CE102, RE101, RE102
- * High Temperature : MIL-STD-810F Method 501.4 Low Temperature
- * Storage : MIL-STD-810F Method 502.4
- * Burning
- * MIL-STD-810F Method 502.4, Procedure-II, Humidity
- * MIL-STD-810F Method 507.4 Shock
- * MIL-STD-810F Method 516.5 Vibration
- * MIL-STD-810F, Method 514.5

SANmilitary Product portfolio

Mobile Field Hospital

Great Mobility capabilities. Fast Setup up time. High readiness in a short time. Consist of independent units. Compatible with the International Standards. Communication (Tele-Medicine if required). Extensions (if required)

Features

Functionality

- * Configuration of Tent/Container/Shelter
- * Light weight
- * Long lifetime up to 20 years
- * "Emergency" and "Hospital" sections can be deployed individually & separately or can be integrated if required
- * Operation under different environmental conditions

Mobility

- * Fast and easy setup
- * Tactical deployability in hard environmental and terrain conditions.
- * Air transportable

Autonomy

- * Automatic power management, (Equipped with external generator for central support functions which includes synchronization, start and stop for redundant power requirement issues)
- * Continuously working capability (7/24)

Equipment

- * Ventilation System for environmental controlling applications
- * Uninterrupted Power Supply (UPS)
- * High-tech Medical Devices
- * Tent/Container/Shelter solutions for different units

Available Configurations

- * Battlefield First Medical Attendance Unit
- * Armored
- * RFI Protected
- * Deployable
- * Clinic Modules
- * Surgery Modules
- * Intensive Care Unit
- * Re-Animation Unit
- * Pharmacy-I laboratory
- * Blood Bank Units
- * Radiological Units

Units

- * Emergency;
- * Consist of Independent Containers
- * Mobile Surgical Unit (with a separate Patient Ward)
- * Additional Units;
 - * - Intensive Care Unit
 - * - Laboratory Unit
 - * - X-Ray Unit
 - * - Sterilization Unit
 - * - Water and Fuel Unit
 - * - Medicine, Gas/Generator Support

Multiple Units for Hospital Configuration;

- * Dentist Unit
- * Optometrist Unit
- * Otorhinolaryngology Unit
- * Urology Unit, etc.

Auxiliary Systems

- * Patient Reception, Classification and Placement Units
- * Personnel Unit
- * Use Supply (hot/cold) System
- * Waste Water System
- * Environmental Lightening System
- * Decontamination Unit
- * Critical Infrastructure Units



SANmilitary Employees

Ali Bayram Güvercin

Business Development Manager & Partner – SANmilitary

- Global Business Engineer (B.Sc) - Technical University of Denmark
- Master in Management of Technology (M.Sc) - Aalborg university

Experience

- Norsoft – Logistic manager
- Danish Defence Acquisition and Logistics Organization – Project Manager
- Danish Defence Acquisition and Logistics Organization – Technical System Manager
- Rheinmetall Defence – Project Manager

Sami Emren Kılıç

Business Development Manager & Partner – SANmilitary

- Electronic Engineer (B.Sc) - Technical University of Denmark
- Master in Management Engineering (M.Sc) - Technical University of Denmark

Experience

- Bang&Olufsen ICEpower – Project Engineer
- Atkins Denmark – Project Engineer / Project Manager
- Banedanmark BDK (Danish Ministry of Transport) – Project Manager / Chief Consultant

Languages we speak:

- Danish
- Turkish
- English
- German
- Norwegian

SANmilitary Employees

Semiha Yasar – Local representative of SANmilitary in Ankara/Turkey

Business Development Manager & Partner – SANmilitary

- University Education Scholarship - TÜBİTAK
- Graduate Education Scholarship - TÜBİTAK
- Graduate Education and Doctorate in USA Scholarship - Ministry of National Education
- Canada Doctorate Scholarship - University of McGill, Montreal
-

Experience

- FNSS Savunma Sistemleri A.Ş.- Director, Product Engineering and R&D
- FNSS Savunma Sistemleri A.Ş.- Director, Development Programs
- FNSS Savunma Sistemleri A.Ş.- Manager, Engineering and R&D Department
- FNSS Savunma Sistemleri A.Ş.- Project Manager
- Republic of Turkey, Ministry of State – Consultant
- Aselsan - Mechanical Design Engineer

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About Us

- Our presence and base in Copenhagen, gives us the advantage to track local and regional defence industries and trends within the defence area.
- Our strength is providing communication between cultures, being able to understand customer needs.
- SANmilitary has more than 8 years of experience within the defence industry and from the defence ministries. We always aim to provide a consistent and sustainable solutions together with our customers.



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SANmilitary experience

1. International experience in managing defence projects
2. Technical expertise



International defence experience & expertise

- Connection to the Scandinavian and European defence procurement departments
- Cooperation & Connection to Scandinavian and European Defence companies
- Coordination of equipment logistics and maintenance at NATO level
- Representation of country interests at NATO level
- Follower of competition and technical trends and evolvments
- Knowledge of technical and operational requirements of various NATO countries
- Knowledge of knowhow and experience adapted from operations and conflicts of various NATO countries

SAN Military's, areas of expertise

Experience adapted from international project management

- Project Management and coordination
- Cooperation between the departments and units attached to the Ministry of Defence
- Operational deployment
- Operations and Maintenance
- Logistic support (stock management, spare parts availability, maintenance procedures and maintenance concepts)
- Technical publication
- Training (maintenance, user and operational deployment/use)
- SAP
- EU & NATO procurement law, and German, Norwegian, Denmark national procurement laws
- Engaged in EU & National bids, offer writing, sales and marketing
- Armoured vehicles upgrade management
- NATO coordination (equipment maintenance and logistics)



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SAN Military's, areas of expertise

Technical expertise & knowledge areas

- Antiterrorism equipment expertise and project management
- Containers, office containers, CBRN Containers
- Mobile traffic lights
- Military boats
- Weapon accessories and equipment
- Sonar
- Military Generators 7.5 kW, 12 kW & 24 kW
- Camp light systems
- Various Detection Systems
- Military helicopters
- Medico equipment, defibrillators, Oxygen Tanks and masks, surgical sets, dressing, stretcher systems, mobile medico kits
- Military ambulances and weapons for ambulances
- ECM and Jammer systems (Electronic Counter Measure)
- Radio systems (HF, Tetra radios, HARRIS 152 and VHF)
- Antitank protection equipment and systems
- Vehicle roll-over simulators



SAN Military's, areas of expertise

Technical expertise & knowledge areas

☐ Military Vehicles and project management expertise

- MAN HX trucks
- Armoured ambulance vehicles (tracked and wheeled)
- Leopard 1 & 2 tracked main battle tanks
- Various American MRAP type vehicles (COUGAR, JERRV, Buffalo, RG-33, Caiman, 'Dingo' etc.) including British MRAPs Mastiff and Ridgeback
- Armoured personnel carriers and mid-range vehicles (M113, Piranha, PARS 8x8, Eagle 6x6 and 4x4, CV-90)



☐ General Military experience

- Military deployment in Afghanistan
- Military deployment in Kosovo
- Tactics - Military deployment
- Military Movement and formations
- Exorcist, Marches
- Brigade, Battalion and Company exercises
- Platoon and team exercises, foreign unit exercises, special units and special forces exercises.
- Urban warfare
- Patrolling
- Reconnaissance and Surveillance



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