Capabilities

DataSoft provides customized products, rapid prototyping, and engineering design services in low-power RF communications, embedded software, IP networking; secure M2M communications, and IoT technology. Our expertise integrating COTS, SBIRs, IR&D, open systems and open architectures helps customers reduce cost & time.

Founded in 1995, DataSoft is headquartered in Tempe, AZ. It has created numerous products from SBIRs, partnerships and Internal R&D while working on System Design & Development contracts in tactical communications & SATCOM.

Markets/Customers

Our products and services are used by defense, homeland security, public safety, SATCOM, tactical communications, and private industry.

Department of Defense (DoD)

- US Army CERDEC
- US Army PEO C3T
- US Marine Corps Systems Command

Prime Contractors

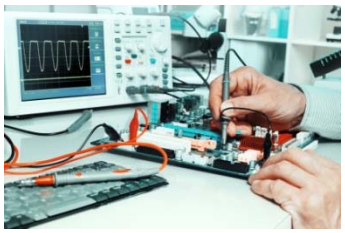
- Thales
- Comtech EF Data
- Lockheed Martin IS&G
- General Dynamics Mission Systems
- Raytheon

Industry

- Intel IoT Group
- Trimble Navigation
- Samsung Business Services
- Motorola Solutions
- International R&D Labs
- NXP Semiconductor

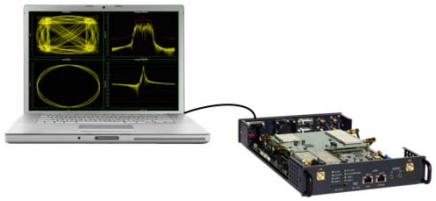
DataSoft

Tactical Apps for IP Networks



Custom RF & Software Design

Embedded Software Products



Thunder SDR

Contact Info.

John Bohlke, Director of Business Development

DataSoft Corp.
1275 W. Washington St. Suite 106
Tempe, AZ 85281

Phone: (480) 763-5777 x419

Email: John.bohlke@datasoft.com

Website: www.datasoft.com

DataSoft

Innovative Solutions for Tactical Networks

www.datasoft.com, 800-797-7153

Background

Over 20 years of experience in design & development of C4 systems. Deep expertise, ability to rapidly prototype, and Intellectual Property saves customers time & money in product development and system integration.

Wireless System Engineering

- Domains: C4I, SATCOM, Tactical Radios, Embedded Systems, Signal Processing
- Network Modeling & Simulation, Test Automation
- CSfC solutions for tactical communications

Hardware Design

- Low power RF & digital circuit design
- PCB design, layout, fabrication, 3D printing
- IIoT module, gateway, and sensors

Application Software Development

- IoT solutions for tactical & industrial needs
- Smartphone Apps for location & injury reporting
- Tactical & ISR app for Nett Warrior
- Command & Control software
- Software Defined Radio

IP Networking Software

- IPv4/IPv6 networking
- Layer-2 bridging, routing, QoS, Bandwidth mgt, policy, traffic prioritization, congestion avoidance

Real-time Embedded Software

- BSP, Boot Loaders, File Systems
- Kernel development, Device Drivers
- Peripherals: UART, WiFi, BT, USB
- ARM, DSP, Vybrid, microprocessors

Facility in Tempe, AZ

SideBridge Modules – bringing IoT to DoD

The SideBridge module provides secure Bluetooth and Wi-Fi connection between a tactical radio and end-user devices such as smartphones. The rugged module attaches to the radio and expands Personal Area Network (PAN) communications, eliminating wires.

SideBridge RAP

- Fits PRC-117G (Red & Black)
- Dual tunnel encryption
- Multiple concurrent users
- Zeroize & no-RF buttons
- Glenair USB data port

SideBridge for Rifleman Radio

- Fits PRC-154A & B
- AES-256 encryption
- Hosts ISR applications
- Micro USB port to connect EUD

SideBridge with LCD

- Fits fielded PRC-154A
- Bright, touch-LCD screen
- Displays GPS, Volume, Presets
- Glenair connector for Nett Warrior EUD

SideBridge Universal

- Easily attaches to legacy radios to provide Bluetooth & WiFi
- AES-256 Encryption. exportable
- Micro USB port

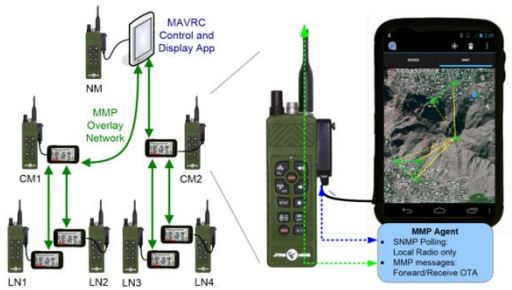
SideBridge SoM

- Low power embedded device for IoT gateways & sensors
- CPU & memory with Linux
- Multitude of interfaces
- Built-in security

Automatic Injury Detection (AID)

- Piercing event automatically sends ID, GPS location, vitals, injuries in seconds
- Works with defense & public safety radios
- Sensor circuit printed on flexible film panel
- Extensible to vehicles, buildings, HAZMAT, other property

Customizable Software Agents



- Efficient, disruption-tolerant, scalable, adaptive software for Situation Awareness, IoT, and ISR
- Self-forming hierarchical wireless network
- Small foot print – easily runs on multiple platforms

Nova – Cyber Security Appliance

- Lightweight distributed honeypot system to detect hostile intruders, including inside attacks
- Available as an appliance or a Virtual Machine