CRYSTAL™

A clear advantage.

CURRENT DEPLOYMENTS
U.S. NAVY/MARINES

When lives are on the line, reliability matters. That's why when an application demands fail-safe computer architecture that withstands harsh conditions, defense and industry leaders choose Crystal Group rugged electronics.

Crystal Group designs and manufactures commercial off-the-shelf and customized rugged computer hardware and provides system integration, configuration management, product life-cycle planning, and complete technical support. The employee-owned small business is fully operated in Hiawatha, Iowa, where it was founded in 1987.

Combat-proven rugged computing devices from Crystal Group include industry-leading servers, displays, networking products, embedded computers, and data storage backed by 5+ year warranties. Crystal Group is certified to quality management standards AS9100C:2009 and ISO 9001:2008, and its products meet or exceed military, IEEE, and IEC industrial standards.

Reliability matters. Crystal Group delivers. Superior quality you can trust.

CRYSTAL™

A clear advantage.

ADMACS
Aviation Data Management and Control System

ADNS
Automated Digital Network System

AHE
E-2D Advanced Hawkeye

ALEX
Automatic Launch of Expendables

A-RCI Sonar
Acoustic Rapid COTS Insertion

CANES
Consolidated Afloat Networks and Enterprise Services

CENTRIXS
Combined Enterprise Regional Exchange System

CSRR
Common Submarine Radio Room

E-6B Mercury

ISNS
Integrated Shipboard Network System

JPALS
Joint Precision Approach and Landing System

LCS
Littoral Combat Ship

LHA-8
USS Bougainville

MIPS
Missile Defense Planning System

MQ-8 Fire Scout

MVCS
Multiple Vehicle Communications System

P-8A Poseidon

RADMERC
Radiant Mercury

RQ-21A Blackjack

SSEE
Ship's Signal Exploitation Equipment

SEWIP
Surface Electronic Warfare Improvement Program

TacMobile
Tactical Mobile

TIH Electronic Warfare
Tech Insertion Hardware

TIPS
Tactical Imagery Production System

TMAN
Trusted Manager

VSE
Virtual Secure Enclave

CRYSTAL GROUP SUPPORT FOR U.S. NAVY

ADMACS
Tactical, real-time data management system communicates aviation and command-related information.
Crystal product deployed: RS112

ADNS
Network supports geographically dispersed forces with voice, video, and data communications.
Crystal products deployed: RS112, Configuration Management, Customer Support

AHE
Airborne system delivers critical battle management, air and missile defense, and sensor fusion.
Crystal Group supplies the mission computer that is part of the new avionics suite.

ALEX
ALEX relies on computer control to manage expendable decoys for ship self-defense.

A-RCI Sonar
Commercial off-the-shelf technologies upgrade sonar signal processing capabilities on submarines.

CANES
Tactical afloat network upgrades and consolidates secure shipboard networks with a common computing environment.
Crystal products deployed: RS112, RS265, RS375

CENTRIXS
Network supports coalition interoperability with secure information sharing for operation planning.
Crystal products deployed: RS112, RS255

CSRR
Upgraded, reliable communications system boosts bandwidth efficiency while reducing the equipment required.

E-68 Mercury
Airborne command post relays critical communications and instructions to ballistic missile submarine force.

ISNS
Subset of the ADNS uses open-architecture systems to outfit ships with a local and wide area network..
Crystal product deployed: RS235

JPALS
All-weather landing system features anti-jam protection to ensure mission continuity in hostile environments.

LCS
Networked, agile, stealthy surface combatant capable of defeating anti-access and asymmetric threats near shore.
Crystal products deployed: RS233L24, RS378L24, and RS255L24

LHA-8
Amphibious assault ship with volume air search radar supports amphibious vehicle deployment.

MIPS
Automated planning tool supports rapid development and visualization of air and missile defense asset deployment.
Crystal product deployed: RS378

MQ-8 Fire Scout
Unmanned autonomous helicopter provides reconnaissance, situational awareness, and aerial fire support.
Crystal product deployed: RS255

MVCS
Common data link enables simultaneous communications with multiple unmanned surface and underwater vehicles.
Crystal product deployed: RS252S13

P-8A Poseidon
Long-range maritime patrol aircraft captures, processes, and stores data for intelligence, surveillance, and reconnaissance missions.
Crystal products deployed: RSS116F, RS100F, RS300FM units are used on the P-8A Video and Data Storage System (VADSS)

RADMERC
Intelligence sharing system protects classified data across network domains from unauthorized access.

RQ-21A Blackjack
Unmanned aircraft system collects and disseminates data in surveillance, reconnaissance, and target acquisition missions.

SSEE
Assesses and analyzes signal intelligence data efficiently to improve situational and battlespace awareness.

SEWIP
Upgrades enhance integrated shipboard combat and electronic warfare capabilities to protect ships from threats.

TacMobile
Tactical, mobile command, control, communications, computers, and intelligence (C4I) capability for expeditionary warfare.

TIH Electronic Warfare
Technology Insertion Hardware upgrades the mission-critical electronic warfare capabilities on submarines.

TIPS
Mobile, rapidly deployable system processes raw images and videos for command and control decision making.

TMAN
Secure platform facilitates data sharing among networks with different security classifications.

VSE
Secure network environment manages cybersecurity risk and establishes reliable data sharing in combat areas.

Crystal products deployed: RS132L24, RS255

RS112

RS265

RS252S13

RS132L24

RS255

For further information or pricing, please contact Metromatics

Ph +61 7 3868 4255
sales@metromatics.com.au
www.metromatics.com.au

Metromatics

CRYSTAL™

A clear advantage.