



L3HARRIS®
FAST. FORWARD.

INDIVIDUAL CORVUS® NODE (ICN)

Compact, lightweight, individual EW and cyber system

TECHNICAL SPECIFICATIONS	
Frequency Range	
Dual-Channel Transmitter	20–6000 MHz Up to 2.2 GHz instantaneous Tx bandwidth
Single-Channel Receiver	20–6000 MHz Up to 160 MHz instantaneous RX bandwidth
Transmitter Parameters	DAC-based signal generation method
Physical Characteristics	
Dimensions	180 W x 67 H x 143 D mm (excluding battery and antennas)
Weight	1.8 kg (excluding battery and antennas)
Power Consumption	<120 W typical
Power Supply	BB2590 batteries (hot-swappable) or equivalent
Temperature Range	Operating: -40°C to +55°C Storage: -40°C to +85°C
Chassis Material	Aluminium
Finish	Hard anodised black to def stan 03/26 Custom colours available to order
Interfaces	
Programming Input/Output	Rear panel circular battery/fill connector Ethernet via front connector
RF Ports	2 x 5 W N-type
Data Interface	1 GB Ethernet RJ45 connection
Synchronisation	Can be synchronised by internal or external source
GNSS	Internal receiver External 1PPS input (cable option)
Alarms	Alarm indicators on front panel RCU available to customer specification Audible alarm built into main unit and RCU Visible/audible alarms for unit diagnostics Covert mode
Security	Zeroize sequence erases all mission data, including capability software
User Interface - Local C2	Web-based interface for loading of mission data, system configuration and unit diagnostics Intuitive Mission Support Suite tool provided for mission preparation and operation



CORVUS is a family of static, mounted or dismounted systems built around a highly agile architectural core, capable of hosting user-defined, mission-specific EW and cyber applications.

ICN is the most compact system within the CORVUS family. ICN is a high-performance software-defined radio, designed to support your mission in environments with high signal densities and powers. It delivers optimal performance without compromising individual freedom of manoeuvre. Applications include electronic surveillance, electronic attack and force protection.



Selected technical information will only be disclosed to personnel and organisations upon enquiry.

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TECHNICAL SPECIFICATIONS	
Standards Compliance	
Handling/Transit	Compliant with the following MIL-STD 810H standards: Vibration (transport) 514.8, 1 Transit Drop 516.8, 4 (unpackaged)
Environmental	Compliant with the following MIL-STD 810H standards: Low pressure survival 500.6, 1 Low temperature storage (-40C) 502.7, 1 Low temperature operation (-40C) 502.7, 2 High temperature storage (+85C) 501.7, 1 High temperature operation (+55C) 501.7, 2 High humidity 507.6, 2 Blowing rain 506.6, 1 Blowing dust 510.7, 1 Blowing sand 510.7, 2 Immersion 512.6, 1
Electromagnetic Compatibility (EMC)	Compliant with the following MIL-STD 461G standards: Conducted susceptibility CS114, CS115, CS116 Radiated susceptibility RS103 Conducted emissions CE106, antenna port Radiated emissions RE102
Electrostatic Discharge (ESD)	ESD immunity compliant with BS EN61000-4-2 IEC 61000-4-3 radiated electromagnetic field immunity

KEY BENEFITS:

- > Smallest unit in a range of new EW and cyber capability
- > Individual detect, collect, deny and protect EW and cyber system
- > Application-driven functionality enabling rapid reconfiguration
- > Fully ruggedised, 1.8 kg unit (without antenna/battery)
- > Delivers individual force protection, electronic surveillance and electronic attack
- > Web-based interface
- > OpenCPI enabled
- > Supports third-party applications

AN AGILE, MODULAR APPROACH TO COUNTER EVOLVING THREATS

CORVUS ICN hosts L3Harris’ purpose-designed fast scanning, wideband transceiver providing fully programmable, full-band channels: two independent transmit and one receive.

CORVUS ICN is mission-optimised and rapidly reconfigurable in the field. Front-panel buttons allow the user to quickly switch between four pre-configured mission applications. The intuitive web-based GUI allows the user to select the most compact UI hardware (PDA, tablet, laptop) to suit the mission. Applications and data are held in secure storage with push-button sanitisation.

All CORVUS applications run on all CORVUS platforms. This provides multi-role multi-platform EW and cyber capabilities, faster reconfiguration to meet mission-specific and threat-driven requirements as well as a faster way to develop, test and deploy missions and threat-defeat waveforms. This provides the user with increased agility and cost benefits when compared to stove-piped, single role, hardware constrained EW systems.

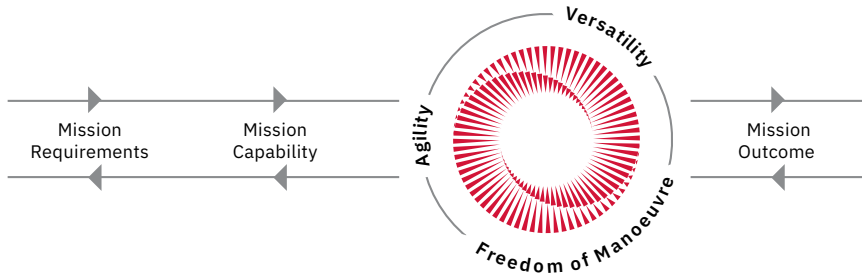
CORVUS’ Mission Support Suite (MSS) provides a standard view into all CORVUS applications, reducing training and cognitive burden. MSS is an interactive, customisable suite of tools for pre-, during- and post-mission planning, orchestration and analysis.

Through MSS, CORVUS ICN delivers CORVUS mission-focused applications, pre-generated and custom inhibition waveforms and fully bespoke customer-generated applications. This enables the user to create a portfolio of EW and cyber applications delivering operational effect in multiple, diverse operating environments and spirally develop capability to meet the changing threat.

A comprehensive suite of health checks enables CORVUS ICN to assure operational parameters at start-up and throughout the system’s operation. Should there be an issue with the system’s performance, an audio-visual indication is provided to the user so that remedial actions can be undertaken.

AGILITY. VERSATILITY. FREEDOM

CORVUS utilises a modular, open-standards-based architecture to deliver information superiority against agile and evolving threats.



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