



**L3HARRIS**  
FAST. FORWARD.

## CONFIGURABLE CORVUS® SYSTEM

Compact, integrated high-power multi-role modular EW system

TECHNICAL SPECIFICATIONS	
<b>Frequency Range</b>	
Transmitter	Full duplex operation 20 MHz-6 GHz
Receiver	20 MHz-6 GHz
<b>Transmitter Parameters</b>	
Signal Generation Method	DAC
Output Power	20 MHz-6 GHz @ 350 W Scalable in frequency, with future VPX cards Scalable in power with modular PAs
<b>Receiver Parameters</b>	
Min Signal Level	Please refer to L3Harris for further details*
Max Signal Level	Please refer to L3Harris for further details*
Signal Detection Method	Please refer to L3Harris for further details*
Scan Rate	Please refer to L3Harris for further details*
<b>Physical Characteristics</b>	
Dimensions	H 335 mm x W 386 mm x D 358 mm (plus filter tray and anti-vibration mount)
Weight	32 kg (plus filter tray and anti-vibration mount)
Power Consumption	1900 W (max)
Operating Limits	18-36 V
Temperature Range	Operating: -40 °C to +55 °C Storage: -40 °C to +85 °C
Construction	Machined alloy
Finish	Powder coat NATO Green/IRR (BS381C 285)
<b>Interfaces</b>	
Power Outputs: RF Ports - Tx	Low Band: 1 x N-Type 50 Ohm, Tx Mid Band: 2 x N-Type 50 Ohm, Tx High Band: 1 x N-Type 50 Ohm, Tx
Power Inputs: RF Ports - Rx	2 x TNC 50 Ohm, Rx
User Interface	STU front panel controls Browser-based Local C2 on tablet or laptop Local C2 on tablet or laptop
Synchronisation	Can be synchronised by an internal or external source
Alarms	Alarm indicators on the front panel Audible alarm built into the main unit Visible/audible alarms for unit diagnostics
Security	Zeroise sequence initiated via the front panel membrane, or front panel expansion data connector. Erases all mission data, synchronisation and application firmware.



CORVUS® is an agile, scalable next-generation electronic warfare (EW) architecture, enabling multi-role, multi-function and multi-domain cyber electromagnetic activities (CEMA) capabilities. L3Harris' Configurable CORVUS System (CCS) can be used as a fixed, vehicle or semi-mounted solution that can rapidly role and re-role multiple CEMA applications at the touch of a button to suit changing mission needs.

**APPLICATIONS:**

- > Electronic surveillance
- > Electronic attack
- > Force protection

**KEY BENEFITS:**

- > Software-defined radio enables rapid switching between roles
- > High EW capability with low SWaP
- > Reduced through-life costs due to vendor-agnostic software/hardware
- > Flexible 350 W inhibition, denial or effect capability
- > Standard external interfaces for vehicle and remote interconnectivity, intelligence-development and tasking
- > User-initiated zeroised facility to erase critical data
- > Comprehensive range of training and support packages

*\*All CORVUS systems are subject to export regulations. Selected technical information will only be disclosed to personnel and organisations upon enquiry*

TECHNICAL SPECIFICATIONS	
<b>Programming Methods</b>	Ethernet via the front panel ethernet connector
<b>Mission Fill Creation</b>	Web-based mission support suite mission creation software
<b>Mission Fill And Operating Firmware Download</b>	Laptop/tablet using web-based Local C2 UI via web browser
<b>Standards Compliance</b>	VPX-based, OpenCPI, LCA aligned, AOCO Common Services
<b>Electromagnetic Compatibility (EMC)</b>	Compliant with the European Automotive EMC directive (2004/104/EC) as a civilian vehicle system  Compliant with the following MIL-STD-461H standards: <ul style="list-style-type: none"> <li>- Conducted susceptibility CS101/3/4/5/6, CS118</li> <li>- Conducted emissions CE101/102/106</li> <li>- Radiated emissions/susceptibility RE101/RE102/RS103</li> <li>- Def Stan 61-5 (Part 6) Issue 6 28 V DC Electrical systems in military vehicles</li> </ul>
<b>Filters</b>	Standard and customer-specified options
<b>Antennas</b>	Standard and customer-specified options 20-520 MHz omni whip 500 MHz-2.7 GHz omni low profile 500 MHz-6 GHz omni low profile 20 MHz-6 GHz Dual Band Rx Whip

ENVIRONMENTAL	
Certified to the following MIL-STD-810 H standards	
<b>Low/High Temp Operation</b>	(-40/+55) 502.7/501.7
<b>Low/High Temp Storage</b>	(-40/+85) 502.7/501.7
<b>High/Humidity</b>	507.6
<b>Dust/Sand</b>	510.7
<b>Driving/Rain</b>	506.6
<b>Operational/Transport Vibration</b>	514.8
<b>Functional/Crash Shock</b>	516.8



The future operating environment will only continue to evolve, requiring counter-threat and electronic-attack responses to adapt faster than ever. The Configurable CORVUS System's agile architecture and software-defined radio design enable units to provide highly effective CEMA capabilities for response at scale and at pace.

Able to support electronic surveillance (ES), electronic attack (EA) and force protection (FP), CCS allows users to rapidly switch between these roles and perform multiple tactical and strategic missions simultaneously. This is achieved through harnessing an open standards-based approach to EW while maintaining the simplicity and effectiveness of previous generations of equipment.

CCS utilises both configurable OpenCPI software and modular OpenVPX hardware to facilitate the rapid development and deployment of mission-critical CEMA capabilities as required. This, combined with the training provision offered by L3Harris, enables users to readily deploy new and existing capabilities via their own developers, trusted third parties and L3Harris.

Users can set their own direction and upgrade at their own pace by acquiring best-of-breed, off-the-shelf parts. This eradicates vendor lock-in, reduces through-life cost and delivers action in days and weeks, not years.

Moreover, CCS currently provides up to 350 W of denial capability with advanced jamming techniques to deliver FP, EA, counter-UAS and user-specified waveforms or effects. Scalable depending on the configuration, providing increased agility and cost benefits when compared to stove-piped, single-role EW systems.

Future advantage comes from local awareness and action, as well as from cross-domain, cross-platform intelligence and response. Designed for networked, standardised tasking and collection, CCS supports tactical and strategic outcomes. This ensures the units can deliver actionable intelligence and response both locally and remotely.

#### CORVUS®

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L3Harris is the Trusted Disruptor in defense tech. With customers' mission-critical needs always in mind, our employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains in the interest of national security. Visit [L3Harris.com](https://www.l3harris.com) for more information.



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