

SIGNAL PROCESSING CONTROLLER



SUBCOMPACT 1U RACKMOUNT SIGNAL PROCESSING CONTROLLER (SPC) FOR IMPROVING ALLIED INTEROPERABILITY

The Leonardo DRS 1U SPC is based on more than three decades of continuous design, development, production, and sustainment of data link systems worldwide.

Leonardo DRS is the world leader in data link modem technology and has delivered upwards of 2,000 systems to more than 20 countries. The data link systems are currently employed in shore support facilities and on destroyers, frigates, submarines, and fixed and rotary-wing aircraft.

The 1U SPC is housed in a 1U chassis supporting 2 or 4 channels of Link 22 Signal Processing Controller (SPC) which can be configured as Link 22 tactical data communication on HF fixed frequency, UHF fixed-frequency, and UHF Electronic Protection Measures (EPM) media.

The subcompact 1U SPC meets the requirements of the NATO Improvement Link 11 (NILE) SPC system segment specifications for HF and UHF fixed-frequency SPC operation and is fully compliant with STANAG 4539 Annexes E, F, and G new waveforms. The system is also fully compliant with STANAG 4372 for UHF EPM operation, as well as provides significant capabilities to support future developments in UHF and HF fixed frequency and EPM

waveforms. The system contains the latest state-of-the-art signal processing technology that provides:

- Next-generation Software-Defined Modem (SDM) architecture.
- Increased reserve processing power for future Link 22 advancements.
- Integrated multi-use reconfigurable channel processor cards.
- Reduced size, weight, power, and logistics.
- Front maintenance access for better maintainability.



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SPECIFICATIONS

PHYSICAL FEATURES	
Dimensions	1.74 x 19 x 11.14 inches (H x W x D) 4.42 x 48.26 x 28.30 cm
Weight	15 lbs. (6.6 kg)
ELECTRICAL FEATURES	
Power	90-264 VAC, 47 to 63 Hz, 30 W
ENVIRONMENTAL FEATURES	
Operating Temperature	+32°F to +104°F 0°C to +50°C
Non-Operating Temperature	-22°F to +158°F -30°C to +70°C
Vibration	MIL-STD-810F 1 Jan 2000 Annex C, Shipboard: Figure 514.5-15
Humidity	MIL-STD-810F, Method 507.4
Shock	MIL-STD-810F 901D
RELIABILITY	
Mean Time Before Failure (MTBF)	Over 11,600 hours per MIL-HDBK-217 F at 25; NAVAL SHELTERED (dual channel)
MAINTAINABILITY	
Mean Time to Repair (MTTR) - ORG Level	10 minutes
Mean Time to Repair (MTTR) - Depot Level	10 minutes
INTERFACES	
Link-Level Crypto Interface	Four RS-422 asynchronous serial ports
Time-of-day Interface	HaveQuick II or Brandywine
Control Interface	Ethernet 10/100 Base-T or RS-423 Asynchronous Serial
Control Software	Link Control Software, Microsoft Windows® or Linux®

Airborne & Intelligence Systems

Tactical Systems
2601 Mission Point Blvd.
Suite 250
Beavercreek, OH 45431
T +1 937 306 3375
NetworkedComms@drs.com

LeonardoDRS.com/Link

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