Maximum reliability, exceptional versatility and unparalleled flexibility have long placed the Liberty-STAR VCCS in a category all its own.

The Liberty-STAR VCCS is the ideal combination of dependability and functionality. Specifically engineered to meet the unique needs of both civil and military air traffic control applications, the Liberty-STAR can provide greater than 99.9999% availability while offering robust easy-to-configure features; commercial-off-the-shelf (COTS) hardware; and open-source software. Whether you manage a tower, area control center, flight service station, or have a mobile requirement, the Liberty-STAR VCCS is designed for you.

The ED-137B and International Civil Aviation Organization (ICAO) compliant Liberty-STAR VCCS is fully scalable and will support a variety of system sizes ranging from a small single operator application to large communication centers encompassing hundreds of operator positions—all utilizing the same software. However, as future operational requirements increase, the system’s scalable modularity allows for cost-effective, trouble-free expansion.

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About Harris Corporation

Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company's advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately $8 billion in annual revenue and supports customers in 125 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

USER FEATURES

- Hosted touch entry device
- Instant Recall Recorder (IRR)
- Listen on hold
- Main/standby select
- Main, standby and tertiary
- Magneto ring
- Merge role layouts
- Operation-based user roles
- PTT confirm & lockout
- Radio bypass
- Radio retransmission
- Ring groups
- Statistics
- Supervisor monitoring
- Rx and Tx select
- Telephone directory
- Integrated recorder and weather system available

With its innovative, open-architecture, the Liberty-STAR VCCS can integrate redundancy schemes on several levels. In the event of an internal fault, the system is engineered to recover without service interruption and offers exceptionally high availability to meet any critical communications requirement.

SPECIFICATIONS

**Physical Dimensions:** 19” wide x 16” high x 18” deep (Expandability is subject to configuration)

**Operating Temperature:** 0°C to +50°C (excludes touch entry device, computers and acoustic devices which are determined by their respective manufacturers)

**Storage Temperature:** -40°C to +55°C (excludes touch entry device, computers and acoustic devices which are determined by their respective manufacturers)

**Humidity:** 0% to 95%, non-condensing

**Frequency Response:** 300 to 3400 Hz, +1.0 to -3 dB relative to 1004 or 1020 Hz

**Level Control:** Digital Automatic Gain Control (AGC)

**Software-Controlled Interfaces Provided for:** Dynamic microphones, unamplified Electret microphones, carbon and carbon-compatible microphones

**Microphone Input:** -91 dBr to +5 dBr, adjustable in 3-dB steps, where dBr is relative to 774.6 mV rms (dBm = dBm when terminating Z = 600 ohm)

**Individual Volume:** 0 to -31 dB in 16 discrete 2-dB steps

**Receive Headset Compressor:** Can be set for discrete compression points of -9 dBm, -6 dBm, or -4 dBm at headset earpiece (based on 600-ohm earpiece impedance)

**Receive Headset Protection:** Can be set for discrete clipping points of -7 dBm,

**Memory Protection:** Settings preserved in non-volatile memory

**SMART POSITION™ (Management System):** Supervisor session (map definition and upload), Maintenance session (diagnostics, HW definition, SW upload), Administration session (access control, user definition), Reconfiguration session (circuit assignment HW, and map editing/upload), TED session (touch entry device, communication access)

**Redundant Power Supplies:** Accept simultaneous AC power from Feed A, the main power source, and Feed B, the critical power bus, with zero delay load sharing in the event of failure

**Power rating per chassis:** Input current power is 3A rms at 115 V AC for maximum configuration per feed

Input current power is 1.5A rms at 208/230 V AC for maximum configuration per feed

AC input voltage: 115/230 and 208 V AC

**Interfaces Include:**

- 2- and 4-wire analog audio from line-based and radio sources
- T1 and E1 digital audio (on wire or fiber)
- VoIP (Voice over IP)

For more information, email ATC-Solutions@harris.com.

AIR TRAFFIC CONTROL SOLUTION FOR ANY APPLICATION

The Liberty-STAR VCCS software possesses an extensive array of analytical and diagnostic subroutines to facilitate trouble-shooting. Operational status is indicated on faceplate LEDs, and diagnostic messages are reported instantly on the system’s maintenance position for easy analysis by operators, controllers, supervisors and maintenance technicians.

-4 dBm, or -2 dBm, based on 600-ohm earpiece impedance; clipping occurs in last active stage driving headset

Non-Export Controlled Information

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