

Sinclair Technologies Launches CSL400 Long-haul Control Station Combiner Series to Simplify Mission-Critical Deployments

Celebrating Sinclair Technologies' legacy of engineering excellence and commitment to the future of communications!

AURORA, ONTARIO, CANADA, August 31, 2026 /EINPresswire.com/ -- Sinclair Technologies proudly launches the CSL400 Long-Haul Control Station Combiner Series, a high-capacity 700/800 MHz platform engineered to simplify, strengthen, and scale shared-antenna infrastructure for mission-critical communications.



Designed for dispatch centers, control rooms, public safety agencies, utilities, transportation systems, and other critical infrastructure environments, the CSL400 Control Station Combiner Series enables multiple trunking or conventional control station radios to operate through a shared antenna system. Supporting frequencies from 762 MHz to 870 MHz and available in 8-, 16-, 24-, and 32-channel configurations, the platform helps organizations reduce antenna count, tower loading, RF cabling, and site congestion while creating a more efficient and streamlined communications

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75 Years of RF Innovation.
One Legacy. Endless
Possibilities.”

Sinclair Technologies Team

infrastructure.

The CSL400 Control Station Combiner Series integrates transmitter combining and receive multicoupling into a single rack-mounted platform, simplifying deployment while reducing equipment requirements. A built-in low-noise amplifier (LNA) helps maintain receive sensitivity and optimize signal-to-noise performance, while an automatic passive bypass feature preserves receive-path continuity in the event of power loss or LNA removal.

Built for reliable RF performance, the CSL400 Series delivers high transmitter-to-transmitter and receiver-to-receiver isolation to help minimize intermodulation and receiver desensitization. Supporting up to 50 watts per channel with no minimum channel separation required within the operating band, it gives operators the flexibility needed for demanding, frequency-agile control station applications.

For added resilience and system visibility, the CSL400 Series supports 110–240 VAC operation with a nominal 12 VDC backup input and automatic AC/DC power-source switching. Front-panel LED indicators provide immediate status of AC and DC power, fan operation, LNA status, and over-temperature conditions. It also features an integrated external alarm relay to enable remote system health monitoring and proactive maintenance.

Housed in a compact, EIA-compatible 19-inch rack-mount enclosure from 1 RU to 5 RU, the CSL400 Series delivers a scalable, space-efficient solution for organizations that depend on reliable, uninterrupted communications.

****Key Differentiators****

- A. Combines up to 32 control station radios into one shared antenna system
- B. Supports 762–870 MHz 700/800 MHz applications
- C. Reduces antenna count, tower loading, RF cabling, and site clutter
- D. Integrates transmitter combining and receive multicoupling in one platform
- E. Built-in low-noise amplifier helps preserve receive sensitivity
- F. Automatic passive bypass helps maintain receive continuity during power loss or LNA removal
- G. High RF isolation helps reduce intermodulation and receiver desensitization
- H. Supports up to 50 watts of RF power per channel with no minimum channel separation
- I. Automatic AC/DC power switching enhances operational resilience
- J. Compact 19-inch rack-mount design available in 1 RU to 5 RU configurations
- K. Front-panel LED indicators and external alarm relay simplify system monitoring

Executive Quote: "The launch of the CSL400 Control Station Combiner Series reflects Sinclair's continued commitment to advancing mission-critical communications infrastructure," said Wee Er, Executive General Manager of Sinclair Technologies. "Designed to maximize infrastructure efficiency while delivering exceptional RF performance, the CSL400 Series enables public safety and critical infrastructure organizations to deploy more capable, resilient, and cost-effective communications networks. This innovation helps ensure that first responders and essential personnel remain connected when reliable communications matter most."

About Sinclair Technologies

Founded in 1951, Sinclair Technologies is a global leader in RF antennas and signal-conditioning solutions for mission-critical communications. Trusted by public safety, utilities, transportation,

and network operators worldwide, Sinclair delivers more than 3,000 precision-engineered products backed by ISO 9001-certified quality. As it celebrates its 75th Diamond Jubilee, Sinclair remains committed to advancing reliable wireless connectivity in the world's most demanding environments.

For additional product specifications, ordering information, or regional sales support, please visit the [CSL400 Landing Page](#) or [Contact Us](#).

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