Zio Transportable Command Center

Rugged, Deployable, Easy Carry

The *Zio*® Transportable Command Center (TCC) from RGB Spectrum is a fully integrated, mobile AV-over-IP solution designed for fast, flexible, and secure deployment. Built on RGB Spectrum's powerful *Zio* platform, the TCC combines multiview display, encoding, decoding, video wall processing, and bonded cellular/SAT communications—in a rugged, lightweight form factor. Weighing under 70 pounds, the TCC is compact enough for hand-carry and can be set up and fully operational in minutes—just connect displays, sensors, local and networked computers.

At the heart of the TCC is a high-performance video processing system that aggregates up to seven local computer/video inputs, an internal computer source, and remote networked video. This enables operators to view and control visual sources across multiple display surfaces made up of monitors or video walls. The system supports H.264/H.265 encoding/decoding as well as VNC, for secure, high-quality video transport across LANs and WANs.

For communications, the TCC offers advanced network gateway connectivity, over bonded 5G, LTE, terrestrial and satellite networks, and local WiFi hotspot services.
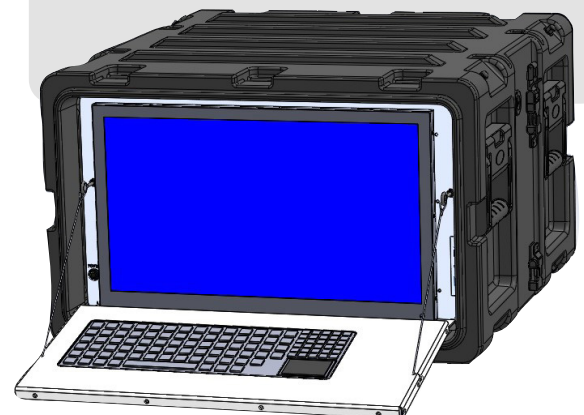
Used as a standalone system or networked with other TCC units or a central command center, the TCC delivers unmatched capability to provide situational awareness, data visualization, and a common operating picture across a wired or wireless network.

The TCC is available in two configurations to meet diverse deployment requirements. The first is a rugged, shock-mounted 5RU travel rack case, designed for ease of transport and field deployment. The second is a 5RU rackmount configuration for permanent installation in a vehicle-based mobile command center or any additional installation. Both options include accessible front and rear panels for easy I/O and network connections, an internal PC and 18.5-inch display.

Purpose-built for emergency and field operations in public safety, defense, and industrial operations, the *Zio* TCC is ideally suited for incident command posts, disaster response, mobile surveillance, and tactical control, including mobile TOCs, UAS/UAV ground stations, and remote monitoring, wherever a command solution may be required.

Key Features

- **Fully Integrated AV-over-IP System**
  Combines video wall processors, encoders/decoders, computer, network switching and display in a single rugged unit.

- **Multiview Video Signal Aggregation**
  Supports up to seven local 4K inputs over HDMI and streams local and remote sources for local viewing, video walls, or field transmission via streaming or VNC.

- **Flexible Display Output**
  Drives up to seven independent display surfaces at up to 3840x2160p60 each.

- **Encoding and Streaming**
  Video inputs and outputs can be encoded for transmission. 4-channel or 8-channel encoding options.

- **Optional Basic or Advanced Network Connectivity**
  Integrated WiFi gateway with bonded 5G/LTE/SAT communications for resilient, high-bandwidth mobile operations.

- **Lightweight and Rugged**
  Weighs only 60-70 lbs, depending on configuration, housed in a 5RU shock-mounted mobile rack for easy carry or standard rack for vehicle mounting.

- **Made in the U.S.A.**

VIDEO

Video Input	• 3x HDMI 2.0 inputs (up to 3840x2160p60 • 7x HDMI 2.0 inputs (up to 3840x2160p60)
Video Output	• 3x HDMI 2.0 outputs (up to 3840x2160p60) • 7x HDMI 2.0 outputs (up to 3840x2160p60)
H.264/H.265 Encoding	• 4x channel encoding • 8x channel encoding

NETWORKING

Wired LAN	• 3x 1GbE
Wireless LAN	• Wi-Fi 6
Wired WAN	• 1x 1GbE
Wireless WAN	• Bonded, dual-SIM card, cellular service • Standard single-SIM cellular service

PC

Operating System	• Windows® 10 Enterprise IoT LTSC
Storage	• 128GB available

DISPLAY

Type	• High Brightness
Size	• 18.5"
Resolution	• 1920x1080, 60Hz
Brightness	• 300 cd/m2

PHYSICAL

Form Factor	• Transportable rack case • Standalone rack
Dimensions (H x W x D)	• Transportable rack case: 15.25" x 24" x 31.5" • Standalone rack: 11" x 21" x 22"
Weight	• 60-70 lbs., depending on configuration

TCC Basic Configuration
Additional I/O Offered as Options

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