



CI Series Collaborative Intercom System

BENEFITS

- Fully Configurable
- Full Duplex, Hands-free Audio
- Universal Microphone Inputs
- Built In Phantom Power
- Built In Equalization
- Automatic Level Control
- Background Music Ducking
- 25 Volt Audio Power Amplifiers
- Vox or Push To Talk Operation
- Broadcast Quality Balanced Line In/Out for Interface to Teleconferencing

The **CI Series** is the most full-featured, flexible communications system available anywhere, at any price. Designed for the most demanding environments, CI Series systems can be custom configured to fit any space. Easy to install, easy to configure, easy to integrate, the CI SERIES' modular design makes system design a breeze. The modular design enables you to custom configure the best system for the job. Select components you need, locate them where they need to be, and put them together via fast, dependable CAT6 connectivity.

The Tech Works **CI-Series Collaborative Intercom** system includes Microphones, Speakers, the CI-MSI-22 Microphone Speaker Interface control unit, Wireless Headsets, the CI-HSI-41 Headset Interface unit, the CI-ODC-1 Operator Desk Console, and many more accessories like foot operated switches.

The system is based on a sophisticated Automatic Level Control technology which delivers consistent, crystal clear, intelligible sound, from a whisper to a shout. With easy integration to third party headsets, microphones, and speakers, there is almost no limit to how you configure your system;

Associated Equipment

CI-HSI-41	Headset Interface
CI-MSI-22	Microphone / Speaker Interface
CI-ODC-1	Operator Desk Console

Design Information

Power	24V DC
Wiring	CAT6 Patch Cables



Tech Works®

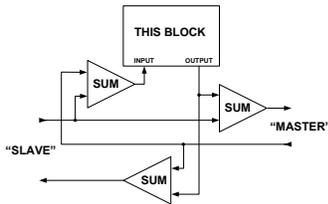
"Making Specialized Communication Easy"



Quick Start Installation Instructions

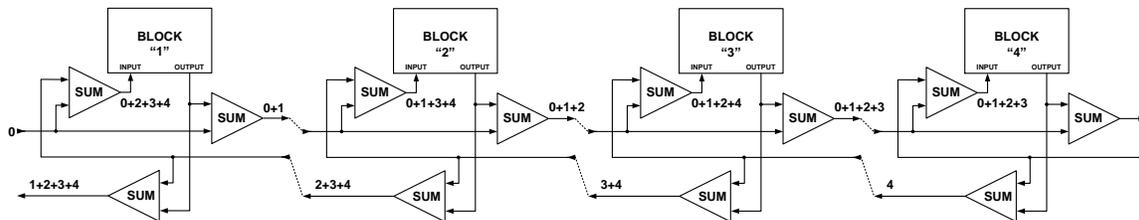
The **CI SERIES (Collaboration Buss)** is a wired network that has four signal pairs:

"Call"	(Control)	Indicates a Station wants service
"Slave"	(Audio)	Communications
"Master"	(Audio)	Communications
"Alert"	(Control)	Indicates Action is requested



The Inputs and Outputs, are transformer coupled; omitted here for clarity

The box marked "**THIS BLOCK**" defines the **function of this Building Block**. A "BLOCK" represents a functional component which is a CI part # and may have an "INPUT", or an "OUTPUT", or both. The SUMers, shown below, are part of every Block, and support the CI SERIES Interface. Each Summer Mixes the Buss Audio signals with the local Audio Signals and Routes them based on the installer configuration.



The Buss structure allows "Blocks" to be "Added" to form a "Chain. A chain is formed by plugging a Master output into a Slave input of another unit.

Most system requirements are satisfied with a **single "Chain"**, Very large system may have several "**Chains**", defined as **Groups**, **Groups may be joined together by a Hub**, such as the **CI-ODC-4**

Jumpers inside of each unit or Block allow the installer to select what comes in from the BUSS and what goes out to the Buss. Please see the individual Installation Guide for each product for more information about jumper selections and settings of each electronic component.

Automatic Level Control and Limiting is used to achieve the standard Output signal levels to keep the sound quality consistent throughout a system.

The **Call Pair** is a "Party Line" passing through to all the Blocks forming a Group
The **Operator Console Responds to a Switch Closure by initiating a Calling Sequence**
All **Switches must be floating**, or isolated with Opto-Couplers

The **Alert Pair** is a "Party Line" passing through to all the Blocks forming a Group
The **Operator Console sends a signal to all the Other Blocks**, such as my Microphone is On
The other **Blocks may be configured to "Respond"** in an appropriate manner
Responder Blocks, are electrically isolated, with Opto-couplers

Please read the Owner's Manual for further information. If you misplace the original a copy is available on line at www.techworks-usa.com

