



IOC -1200 S-SERIES IP BASE INTER OPERATE CONTROLLER



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The IOC-1200 S-Series provides true convergence of Local Interoperability, IP communications and control, and SIP. Now, you can bring all the advantages of the open-standards SIP protocol to your radio systems and add radio functionality to your network.



Benefits

- Connect SIP VoIP devices to radios.
- Two-way radio users have access to features that have traditionally been available only to telephone users, including the ability to directly call telephone extensions, call forwarding, call logging, and call recording.
- Control a large interoperability system via IP.
- Connect radio systems at multiple sites across an IP network.
- Remotely change radio channel or frequency over IP.
- Distributed network design ensure continuity of local operations in the event of network failure.



Overview

The IOC-1200 S-Series offers a full suite of network capabilities including linking of radios over an IP network, control of large interoperability systems via IP, remote channel change over IP, and the ability to interface radios via SIP. The IOC-1200 S-Series builds on the industry standard IOC-1200 S-Series ability to link disparate communications systems. These systems can be linked, monitored and controlled over an IP network, and the SIP capabilities allow SIP-based systems or individual SIP endpoints (such as SIP phones or soft-phones) to be included in the interoperable conferences. Like the IOC-1200 S-Series, the IOC-1200 S-Series is modular, completely scalable, and field configurable to meet the customer needs.

Customers can employ the new SIP communication capabilities in either of two versions, depending on their requirements:

Local Interoperability Gateway with SIP Capability

This version of the IOC-1200 S-Series adds SIP phones, SIP PBXs and other SIP devices to the long list of communications media that can be included in an interoperability conference. The SIP capability allows radios to be operated from anywhere on the network with the ease of operating a telephone; the interface even includes a speed dial.

This version continues the IOC-1200 S-Series "distributed network" approach, with local interoperability links taking place within the unit itself, not relying on a network server and thus assuring continuity of local operations in the event of network failure.

Server-based, Highly Scalable Interoperability

The second version allows radios and other four-wire devices to be included in a server-based network topology using SIP to initiate and manage all cross-connections. Each radio is assigned its own IP address and the interoperability takes place in the IP realm.

What is SIP?

SIP is a standard-based open protocol used to create, manage and terminate sessions in an IP based network. SIP enables the convergence of voice, data, and video, allowing equipment with varying media capabilities to be conference together. An essential component of the protocol is a determination of the services supported by each of the different types of communications equipment in the conference, so that any services held in common can be exchanged between them.



IOC SOFTWARE CONTROLLER- Version 1.English

Radio/4W Interface Specifications

Audio Input: Balanced or Unbal 600 ohms or Hi-Z; -26dBm to +12dBm levels; 100Hz to 3200 Hz.

Audio Output: Balanced or Unbal 600 ohms; -26dBm to +12dBm levels; 100Hz to 3200 Hz.

Digital I/O: COR/Squelch and AUX inputs, PTT, and AUX outputs; E&IVI input/output.

DSP Algorithms: VOX or VIVIR Voice Detection; TD-Mode Noise Reduction; DTIV1F; Audio Equalizer; TX and/or RX Audio delay; Peak Limiter; COR Sampling; TX Keying tones.

SIP Network Interface

RFC Supported: 3261, 2976, 3515, 2327, 3264, 1889 SIP Support Vcoders: GSM and G711 u

Telephone Line Interface

Phone Line: R1-11 Connectors (2); -24 dBm to 0 dBm levels.

DSP Algorithms: DTMF Detection and Generation; DSP Adaptive Hybrid, DSP VOX



RoIP Interface (Radio over IP)

Network Interface: R1-45 Connector; 10/100Base-T Ethernet

Radio-Centric Features: Audio delay and jitter buffers to handle network latency; embedded COR, PTT, and RS-232 serial control; three audio vocoder types.

Programming/Configuration: HTTP (Password Protected Web)

Network Interface Type: 10/100BASE-T Ethernet, 1001V1bps; RJ-45 Connector

General/Environmental

AC Input Power : 115 to 230 VAC \pm 15% 47-63Hz, 80VA Typical, 100 VA Maximum DC Input Power: +11 to +15 VDC @4A Nominal

Battery Charger : 1A Output (Maximum, Tapered charge circuitry for a lead-acid battery Size and Weight: 5.25"H x 19"W x 11 "D (13.3 x 48.3 x 28cm)

Temperature : Operating: -20 to +60 degrees C. Storage: -40 to +85 degrees C