

# Integrating the Motorola i365 or i365IS Portable With Your DCS-5020 Consoles



Motorola i365 Series

Zetron's Intelligent Radio Interface Module (iRIM) is used to integrate the Motorola i365 or i365IS iDEN portable into the DCS-5020 Digital Console System. This is a cost effective way to quickly deploy a wireless console system to an existing iDEN Network and utilize many of the voice control functions available to iDEN users.

The following iDEN features are supported via the DCS-5020:

- **Call ID decode and display:** All calls to the console shall include the call ID or alias when made available by the radio to the interface.
- **Emergency Calls:** Both incoming and outgoing Emergency calls.
- **Group Calls:** Both incoming and outgoing Group Calls.
- **Individual Calls:** Both incoming and outgoing Individual Calls.
- **Status Message:** Incoming and Outgoing status messaging is supported.

## How it works

The iRIM uses a Console Control Protocol that is common to a number of Zetron Console systems (including Zetron's Acom Advanced Communications [AcomEVO] System) to be able to provide a common console language between the Zetron console and any connected radio.

The iRIM provides the following capabilities:

- Remote control of i365 series of portables
- Decoding of iDEN PTT IDs; as well as Emergency messages and Status messages
- Voice delay to compensate for trunked-radio system key-up delays
- AGC (automatic gain control) on transmit audio
- Radio Interface Module Check function to ensure connectivity
- Control of two radios from a single Radio Interface Module
- Modular connectors and pre-set levels for easy installation
- Configurable over Ethernet using a standard web browser
- Desk or rack mounting (optional)

An iRIM control panel is used on the Console's User Interface to set up audio and data connections to the iRIM. The iRIM interprets the control protocol and translates it into a protocol that is common to the Motorola radios that are connected.

## How iRIM connects

The diagram below shows how an iRIM provides the con-

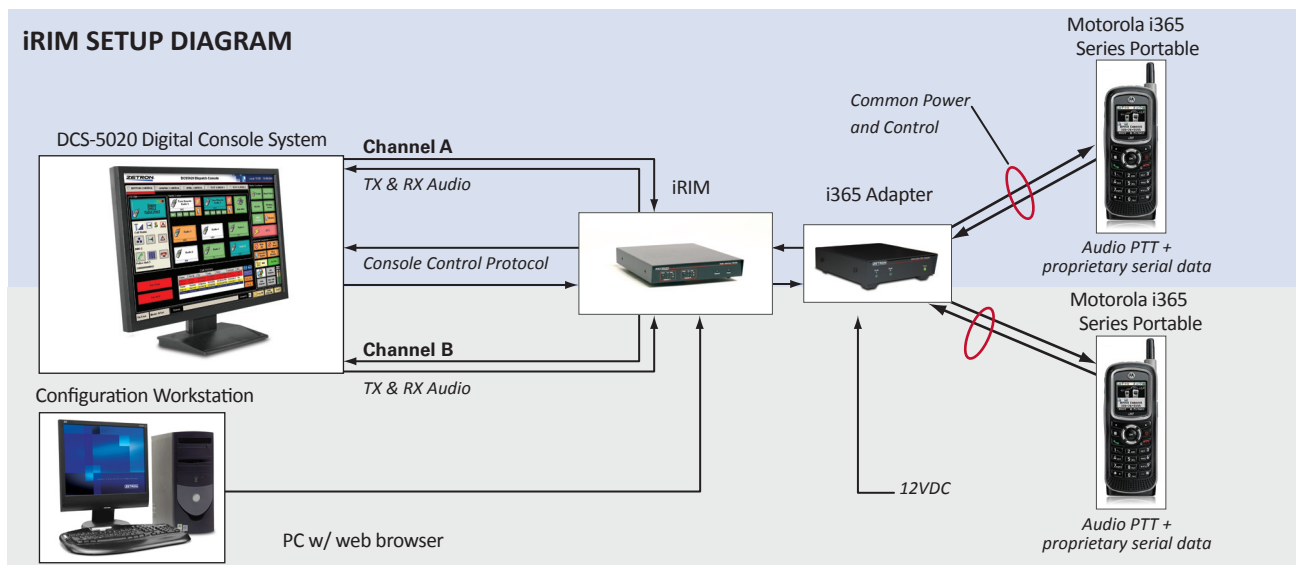
nection between the DCS-5020 and up to two Motorola portables. A Zetron i365 Adapter is used to provide a single common cable connection from the iRIM to the i365 portables. This single cable connection provides audio control as well as trickle current to maintain battery power in the units. The console-side of the iRIM connects to the console's analog four-wire for audio and a radio-control port for control. This provides both transmit and receive audio connections and console control messaging respectively. The radio-side of the iRIM connects to the i365 radio remote-control port. This provides transmit and receive audio connections via the Zetron Adapter. It also provides a PTT control signal as well as serial communications signals that can pass control and PTT-ID data to and from the radio. The iRIM and Adapter can be remotely situated away from the console system if required.

**Further information**

For more information about the Zetron i365 iRIM interface for the DCS-5020, including additional information about the radio technologies it supports, see:

- Intelligent Radio Interface Module for Motorola i365 iDEN Manual (025-9623)

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