

# iSeries Trader Voice Solutions

## iD114 Four Channel Desk Station

### Benefits and Capabilities

- Compact, Cost Effective Hoot 'n' Holler, Private/Direct Line (MRD/ARD) Solution Set Supporting up to 4 Simultaneous Channels
- Activity and Status Indicators
- Rotary Volume Control and Optional Latching Modes
- Extensive Input Device Options; Including Gooseneck Microphone with Speech Distance Indicators, Momentary Latching Handset with Built-in Noise Cancelling Microphone and CB Radio Microphone
- Option to use the iD114 as a Merged IP Gateway and Desk Station
- Comprehensive Set of Embedded Security Options
- Device Management via an Integral HTTP Server or Speakerbus' Browser-based Centralised Management System



iD114 Desk Station

### Overview

The iSeries is a suite of Voice over Internet Protocol (VoIP) applications that increase the resilience, flexibility and power of trading room voice solutions through a "Plug and Trade" approach to trader voice technology. Based on dedicated network hardware and Speakerbus' Real Time Protocol (SbRTP) packet technology, the iSeries product family maintains traditional voice quality and scalability standards, while offering an evolutionary migration to a pure VoIP environment.

The heart of the iSeries IP solutions suite is Speakerbus' enhanced SbRTP technology, which delivers exceptional voice quality across the Local Area Network (LAN). SbRTP packet technology ensures that Hoot 'n' Holler or Private/Direct Line (MRD/ARD) calls reach the end user without the distracting latency between speakers.

The iD114 desk station can support up to 4 simultaneous Hoot 'n' Holler conferences and/or Private/Direct Line (MRD/ARD) voice calls over IP. The iD114 is built on standards-based packet formats utilising interfaces such as Simple Network Management Protocol (SNMP) and enabling integration into third party network monitoring solutions. The iD114 has the added flexibility of operating in a 'merged IP Gateway mode,' which provides the same feature set as the iG124 iSeries gateway solution.

The iD114 is configured via an intuitive web-based interface or utilising Speakerbus' Centralised Management System.



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### Channel Capacity

- 4 x Hoot and/or Private/Direct Line (MRD/ARD) voice channels

### Call Types

- Hoot conferences
- Private/Direct Line (MRD/ARD)

### Feature Keys

- Single channel option
- eGateway functionality (for UDP unicast WAN requirements)

### Network Requirements

- Network 100 Base-Tx (full duplex)<sup>1</sup>
- IP Addressing: Dynamic or Static
- DNS Support: Microsoft dynamic domain name system
- Voice LAN: Multicast network utilising IGMP and supporting (SbRTP)
- Voice WAN: Unicast network supporting UDP<sup>2</sup>
- Other supported network protocols: Ethernet, IPv4, DHCP, TCP/IP, DNS, HTTP and SNMP

### VoIP Media

- Supported Codec types on the WAN: G.711 PCM 3.4KHZ A-law/U-law; G.729 Annex A – CS-ACELP; G.723.1 (6Kbps) MPC-MLQ (6KB)
- Speakerbus Trader Voice on LAN: Speakerbus Real Time Protocol (SbRTP) enhanced– 7KHZ voice bandwidth
- Typical latency over LAN 6ms (using 1ms packet sizes)
- Max Packet Loss on the LAN 5%
- Bandwidth optimisation techniques: VAD (Voice Activity Detection)
- Diffserv (RFC 2474) –Type of service field configurable

### System Management

- Optional browser-based centralised management application for large scale deployments
- Individual device management via integral HTTP server
- Browser support either IE 6.0 or higher and Mozilla Firefox 3.0 or higher
- SNMP traps supported: coldstart, linkdown, linkup and authentication failure
- Upgradeable operating firmware

### Security Features

- Separate account profiles, independently password protected
- Encrypted passwords
- Ability to lock down individual device services, including integral HTTP server and SNMP ports
- Configurable SNMP community string password
- Password protected Engineering communications port
- Administrator defined HTTP inactivity timeout

### Input Devices

- Microphone: Pluggable gooseneck noise cancelling microphone
- Handset: Speakerbus momentary latching noise cancelling handset
- CB Microphone: Momentary latching dynamic microphone

### Voice Characteristics

- Voice Frequency Range 50Hz – 7KHZ
- Microphone Sensitivity 63 ± or 3dB
- Loudspeaker Output 2W RMS

### Dimensions

- Desktop mounted
- Housing ABS plastic
- Width: 102mm
- Height: 117mm
- Depth: 162mm
- Weight: 0.6Kg

### Power Requirements

- Voltage 100–240VAC nominal
- Frequency 50–60Hz AC
- DC Output 12 v 750mA

### Interfaces

- Network interface 10/100 BaseT Ethernet auto sensing
- LAN connection (RJ45 Socket)
- Handset interface port (RJ11 Socket)
- 8 Pin Mini Din Com Port (reserved for use by Speakerbus)
- 2.5mm DC outlet socket

### Environmental

- Operating temperature 0–35 C
- Relative humidity 10% to 90%, non condensing

1 Can also be used in conjunction with 10 Base-TX networks if used as a standalone device

2 When utilising eGateway mode functionality

