

# iSeries Trader Voice Solutions

## S920 - iManager Communications Server Appliance

### Benefits and Capabilities

- Turnkey server appliance optimised for regional and small sized trading desks
- Based upon a next generation SIP architecture
- Supports telephony, private lines (ARD & MRD), Hoot, Intercom and Group calls
- Integral system management
- Redundant compliance recording interface included as standard
- Built on a resilient server platform including RAID and redundant PSU



iTurret Desk Station

### Overview

The S920 Appliance is a turnkey iManager system optimised for regional and small sized trading desks. With the S920 Appliance companies can enhance their trader voice solution to achieve a competitive edge through improved communication efficiencies and strengthened collaboration.

iManager is based upon a next generation SIP architecture, leveraging open standards and builds upon the best of breed capabilities from Microsoft® and open source technology in a service orientated architecture (SOA).

The S920 Appliance supports iTurret 2.0 functionality for telephony, private line (ARD&MRD), hoot, intercom and group calls.



### Capacity

- 20 iTurret Devices
- 300 Media Streams
- 20 Group Calls
- Single Site Support

### Call Types

- Telephony
- Intercom (ICM)
- Hoot 'n' Holler
- Private Wires - ARD (Private Wire Automatic Ring Down) or MRD (Manual Ring Down)
- Voice Nets
- Remote Working
- Line Sharing

### Server Architecture

- Virtualised Environment using Microsoft Hyper-V
- 2 x Virtual Environments
- Environment One - iManager Communication Server (iCS)
  - Linux based 64 bit operating system
  - Integrated SIP server
  - Apache web server
  - Net SNMP Client
- Environment Two - iManager Centralised Management System (iCMS)/iManager Call Detailed Service (iCDS)
  - Microsoft® Windows 2008 R2 Server 64 bit Embedded
  - Microsoft® SQL Server® 2008 R2 Express

### Licences

- iCS
  - iCS Base Licence (iCS Base) x1
  - iCS Trunk Licence (iCS Trk) x1
  - iCS User Account Licence (iCS UAC) x20
  - iCS Shared Line Standard (iCS SLS) x20
- iCMS
  - iCMS Base Licence (iCM Base) x1
  - iCMS Device Connection Licence (iCM DCL) x20

### Network Requirements

- Network 100 Base-Tx (full duplex)
- IP addressing: Dynamic or Static
- Voice LAN: Multicast network utilisation
- IGMP and supporting SbRTP
- Other supported network protocols: Ethernet, IPv4, DHCP, TCP/IP, DNS & HTTP

### Connectivity

- SIP - RFC 3261

### VoIP Media

- Supported Codec types on the WAN: G.711 PCM 3.4KHZ A-law/U-law
- Multicast Control Channel (MCC)
- 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

### Third Party Interoperability

- Certified Voice Logging and Recording - Nice (Cybertech), Red Box Recorders & CTI Data

### Chassis

- 1U Rack mount Server (Height 43mm, Width 437mm, Depth 503mm)
- Colour - Black
- Gross Weight - 13.65kg

### Processor/Memory/Hard Disk

- Intel Xeon E5-2620 6 Core 2.0Ghz , 15M Cache, 1333Mhz FSBQ9400
- 4GB Memory DDR3 1333Mhz
- 2 x 500Gb SATA Hard Disk using RAID 1 storage

### Power Requirements

- 400 Watt Redundant PSU
- Voltage 100-240VAC nominal
- Frequency 50-60Hz AC

### Environmental

- Operating temperature 10-35 C (50F - 95F)
- Relative humidity 8% to 90%, non condensing
- RoHS Compliant

