

## The Inveneo Hub Server R3

## The ultra low-power, easy-to-use network server

The Inveneo Hub Server R3 is a low-power, highly configurable server that is a key component of the Inveneo Communications System. The Hub Server R3 provides system management, storage, and network connectivity for low-power computing and telephony networks in rural areas.

Both the Inveneo Communications Station and the Inveneo Computing Station are designed to connect via traditional LAN or Long-Distance WiFi LAN to the Inveneo Hub Server R3, providing a complete ICT solution.

The Inveneo Hub Server R3 is a Linux-based server that provides:

• File storage for documents and shared content

- Intranet Web Server
- Firewall and NAT Security
- Print Server
- · Internet content caching & filtering
- IP-PBX functionality; telephone switching that includes dial-tone, the ability to conference, transfer, voicemail, dial-by-extension, with connection to public switched telephony networks available via optional VoIP service provider or cellular adapter

The Hub Server R3 can be configured with a variety of hardware options to interconnect to the public switched telephony network (PSTN), a GSM/CDMA wireless network (via GSM modem), satellite, or standard wireless or wired broadband networks.

Key hardware design features include:

 Two 2.5 inch laptop hard disks for lower power consumption, with RAID1 drive mirroring to mimimize downtime or data loss in case of drive failure

- Extremely low (less than 25W) power consumption
- 12V DC or 110/240V AC adaptor

Key software design features include:

- Pre-configured with Inveneo Hub Linux. Windows XP or Windows Server software are optional
- Ships pre-configured for turnkey installation – custom configuration possible via web administration

Since the Inveneo Hub Server R3 is an open hardware design that operates using Open Source software, all plans and software are published through Inveneo's website. Developers are encouraged to improve upon and customize solutions for their own needs.

Inveneo can also provide customization services to those needing specialized configurations of hardware and/or software, including Microsoft® operating systems.

## **Inveneo Hub Server R3 Specifications**

Processor 1.2GHz VIA C7 nanoBGA2

Chipset VIA CN700 North Bridge

VIA VT8237RP High-bandwidth Vlink Client South Bridge

Memory 1GB PC2-4200

IO/Peripheral Support One RS-232C serial port (DB-9)

Four USB 2.0 ports

PS/2 keyboard port (optional enhanced USB Windows keyboard with 104 keys available)

PS/2 mouse port (optional PS/2 optical wheel mouse available)

VGA video output (DB-15)

Optional external USB CD/DVD-R drive

Printers Local printers can attach through USB

Serial ATA Two Serial ATA Ports provide 150MB/s (max)

data-transfer rate Software RAID included

Storage 80GB, using two 80GB drives in RAID1 configuration

Other capacities available upon request

Networking Two 10/100 Base-T Fast Ethernet, twisted pair (RJ-45) ports

VGA 16/32/64MB frame buffer using system memory

Internal AGP 8x performance

128bit 2D/3D VIA S3 Graphics UniChrome Pro Processor

24-bit true-color RAMDAC up to 250MHz pixel

Display support VESA monitor support, with DDC for automatic setting and resolution and refresh rate

Max. resolution and refresh rates (Hz)

64k colors: 1280x1024 @ 85Hz or 1600x1200 @ 60 Hz

16.7M colors: 1024x768 @ 85 Hz

Audio VIA VT1617A Supports full duplex audio

Output: 1/8 inch mini connector, full 16-bit stereo, 48 Khz sample rate

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Input: 1/8 inch 8-bit mini microphone

76(D) x 184(W) x 190(D) mm 3(H) x 7.25(W) x 7.5(D) inches

Shipping weight: 3.6 kg (8 lbs)

Environmental Powered on: 10° to 40°C (50° to 104°F)

Powered off: -10° to 60°C (-14° to 140°F)

Convection (fanless) cooling

Humidity: 20% to 80% noncondensing

Operating altitude range: 0 to 3050 meters

(0 to 10,000 feet)

Power: 12 VDC direct, or auto-sensing 100-240VAC 50/60Hz power supply

Regulatory compliance: UL 60950, TUV-GS, CSA 60950, FCC Class B, CE, VCCI, C-Tick



**Dimensions** 

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