

The Inveneo logo is positioned vertically on a green background. It features a stylized sunburst icon to the left of the word "inveneo" in a white, lowercase, sans-serif font.

The Inveneo Computing Station

The low-power, easy-to-use desktop system for rural and remote installations

The Inveneo Computing Station is an ultra low-power, affordable, and easy-to-use desktop computer designed for use in rural locations such as clinics, schools, field offices, community centers and Internet cafes.

The Computing Station includes the following components:

- Ultra-low-power computer with keyboard and mouse
- LCD monitor with mounting bracket for computing unit
- 12-Volt DC operation or 100-240 VAC (AC adapter included)
- 2GB Flash memory (standard) or 40GB hard drive option
- Inveneo Desktop 2.0 Open source software; Open Office, instant messaging, and other applications (Xubuntu Linux or Windows XP optional)

The Computing Station is designed for use in challenging environments. Existing off-the-shelf products from leading manufacturers have been carefully selected and integrated into a single compact unit to meet the requirements of organizations operating in rural areas anywhere in the world.

Key design features include:

- Solid-state design eliminates fans, hard disks, or moving parts of any kind, making it ideal for use in extreme environments (2GB flash unit)
- Very low power consumption allows the units to operate efficiently on 12 volts DC, with renewable power from solar panels or other sources
- Simple interface design enables novice users to be productive with a minimum of training
- Built-in flexibility allows partners and customers to add and localize applications

- Affordable and sustainable cost model combines a low purchase price with low ongoing operating expenses

The Inveneo Computing Station can be used for a variety of applications, such as community development, health care, education, microfinance, telecenters, and small business entrepreneurship.

Since the Inveneo Computing Station is an open hardware design that operates using Open Source software (such as Linux, OpenOffice and more), all plans and software are published through Inveneo's website. Developers are encouraged to improve and customize solutions for their own needs.

Inveneo can provide customization services for organizations that need specialized configurations of hardware and/or software, including support of Microsoft applications.

Inveneo Computing Station Specifications

Low-Power Computing Unit

Processor

AMD Geode LX800 (500Mhz)

I/O Peripheral Support

Four USB 2.0 ports
Keyboard: enhanced USB with Window keys (104 keys) included
Mouse: USB optical wheel mouse
VGA-type video output (DB-15)
Local printers via USB or LAN
Built-in Kensington security slot (cable lock sold separately)

Networking

10/100Base-T Fast Ethernet, twisted pair (RJ-45)
USB WiFi adaptor 802.11b/g (optional)

Display support

VESA monitor support, with Display Data Control for automatic setting and resolution and refresh rate
Max. resolution and refresh rates (Hz)
64k colors: 1280x1024 @ 100Hz
1600x1200 @ 90 Hz
16.7M colors: 1280x1024 @ 85 Hz

Audio

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

Environmental

Powered on: 32° to 104°F (0° to 40°C)
Powered off: -14° to 140°F (-10° to 60°C)
Convection cooling, fanless design
Humidity 20% to 80% noncondensing
Altitude range 0 to 10,000 feet (0 to 3,050 meters) operating

Power Auto sensing

100-240v Volt AC, 50/60 Hz with included power adaptor or 12 Volt DC direct to unit
Average power usage: 8 Watt (set-up: device connected with 1 USB keyboard, 1 USB optical mouse, 40 GB harddisk)

Memory 256 MB Ram (DDR SO-DIMM)
40 GB 2.5" 4200 RPM harddisk
2 GB flash memory

Operating system

Inveneo's Linux distribution based on Xubuntu; other Linux distributions and Microsoft Windows XP capable

Regulatory compliance

German EKI-ITB 2000, ISO 9241-3/-8, cULus 60950, TÜV-GS, EN60950, FCC Class B, CE, VCCI, C-Tick



Liquid Crystal Display

Panel Type

Anti-glare, active TFT-LCD

Size

14.1" diagonal

Maximum Viewable Size

14.1 inch (35.8 cm)

Pixel Pitch

0.279 (W) x 0.279 (H) mm

Brightness

150 cd/m² (typical)

Contrast Ratio

300:1 (typical)

Response Time

23 ms (typical)

Viewing Angle(H / V)

80° / 50°

Max. Resolution

1024(W) x 768(H) @ 60 Hz (non-interlace)

Display Color

262 K

Video Input

Analog: 15-pin, D-sub connector

Display area

11.2 (W) x 8.4 (H) inch
286(W) x 214 (H) mm

Power Supply

Input voltage: 100-240V /60-50Hz
Output rating: 12V DC, 3.0A

Power Consumption

25 watts (maximum), 11 watts (typical),
3 watts (standby)
Audio 2 watts x 2 built-in speakers

Frequency

Horizontal: 30-48KHz;
Vertical: 50-60Hz

Operating Conditions

41°F to 95°F (5°C to 35°C),
20%-80% Non-Condensing humidity

Storage Conditions

-4°F to 140°F (-20°C to 60°C),
10%-90% Non-Condensing humidity

Dimensions(set size)

13.8(W) x 13.6(H) x 5.5(D) inch
350(W) x 345(H) x 140(D) mm

Safety & EMI

UL, CUL, FCC-B, CE, TÜV-GS



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