



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 drive or 40GB hard drive
- Inveneo Desktop 2.1 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)

Keyboard & Mouse

Enhanced 104-key USB keyboard
USB optical wheel mouse

Memory

512 MB RAM (DDR SO-DIMM)

Storage

2GB flash drive or
40GB 2.5" 4200 RPM harddisk

I/O Peripheral Support

Four USB 2.0 ports
VGA-type video output (DB-15)

Operating system

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

Networking

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

Display support

VESA monitor support, with DDC for auto-
matic setting and resolution and refresh rate
Maximum resolution and refresh rates (Hz)
1024(W) x 768(H) @ 60 Hz
Other resolutions available when computing
unit is used with other monitors

Audio

Output: 1/8 inch mini connector, full 16-bit
stereo, 48-Khz sample rate
Input: 1/8 inch 8-bit mini microphone
Power: 2 watts x 2 built-in speakers

Printers

Hundreds of models supported by USB or
LAN



Liquid Crystal Display

Panel Type

Anti-glare, active TFT-LCD

Size

15" diagonal (38.1 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)

Video Input: Analog: 15-pin, D-sub connector

Display area

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

Frequency

30-48KHz (Horizontal); 50-60Hz (Vertical)

Power and Environmental

Average Power Consumption

22 watts (set-up: computing unit and LCD
connected with 1 USB keyboard, 1 USB
optical mouse, 40GB harddisk)

AC Power Supply

Input voltage: 100-240V / 60-50Hz
Output rating: 12V DC, 3.0A
Unit can run on 12V DC power directly

Environmental

Powered on: 5°C to 40°C (41° to 104°F)
Powered off: -10° to 60°C (-14° to 140°F)
Convection cooling, fanless design
Humidity: 20% to 80% noncondensing
Altitude range 0 to 10,000 feet
(0 to 3,050 meters) operating

Dimensions(set size)

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

Regulatory compliance

Computing Unit

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

LCD Safety & EMI

UL, CUL, FCC-B, CE, TÜV-GS



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