



## **The Inveneo High-Efficiency Computing Station**

**The low-power, easy-to-use desktop system optimized for off-grid installations**

The Inveneo High-Efficiency Computing Station is an ultra-low power desktop computer designed for use in rural and off-grid locations where electrical supplies are limited or unreliable, like underserved clinics, schools, community centers, and microfinance offices.

Computer components from leading manufacturers have been carefully selected and integrated into a single compact unit, optimized for solar-powered installations:

### **The High-Efficiency Computing Station benefits include:**

- Minimal power infrastructure investments: it draws less than 18 Watts during normal operation
- No need for costly inverters: it's ready to run on a pure 12 Volt DC power system right from the box
- Great multi-user viewing: it has a 15" LCD screen with a tiny overall footprint, perfect for crowded classrooms
- Low maintenance costs: its rugged hardware stands up to hot, dusty computing environments
- Your choice of software: it runs Linux or Windows XP and can be customized with Inveneo's Community Software Pack



The Inveneo High-Efficiency Computing Station has a very low Total Cost of Ownership (TCO), and is designed to be sustainable even in resource-constrained environments. It combines a competitive purchase price with minimal infrastructure requirements and low support and maintenance costs. The result is a significantly more effective solution with a lower overall cost than traditional computers, tailored to the needs of organizations operating in rural areas worldwide.

# Inveneo Computing Station Specifications

## Low-Power Computing Unit

### Processor

Intel Atom Z530 1.6GHz

### Chipset

Intel US15W SCH

### Display

Intel GMA500 graphics acceleration  
DVI Digital output up to 1920 x 1080  
through HDMI connector

### Memory

1GB DDR2 333MHz soldered on-board

### Ports

- RJ45 Ethernet port 1000Mbps
- WLAN 802.11b/g 54Mbps
- 6 x USB 2.0 High-Speed ports
- miniSD socket
- mini RS-232 (RX/TX)
- HDMI (HDMI-DVI adapter available)
- Stereo line-out audio (headphones)
- Stereo line-in audio / Mic

- Programmable consumer IR receiver

## Software

### Phoenix BIOS

Bootable from HDD, USB thumb drive, USB CDROM,  
USB hard disk, or over the network

### Operating Systems:

- Ubuntu 8.04 (preloaded as an option)
- Windows XP Home SP3 (preloaded as an option)

### Applications

Community Center Software Collection  
(preloaded as an option 30 applications, including  
iTunes, Skype, QuickTime, RealPlayer, Flash, and  
Shockwave. It also includes a typing tutor  
and solutions to edit photographs, audio files,  
and movies.)

## Mechanical and environmental

Splash and dust resistant enclosure

**Material:** 100% aluminum body

**Width:** 101mm

**Length:** 115mm

**Height:** 27mm

**Weight:** 370g

**Operating temperature:** 0 — 45°C

0 — 70°C (w/o hard disk)

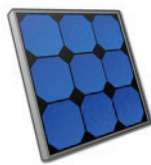
**Power:** 12VDC single supply

or 100-240VAC 50/60Hz

**Power consumption:** 6-8W

## Certifications

CE, FCC Class B  
for Home or  
Office Use



Solar Panel



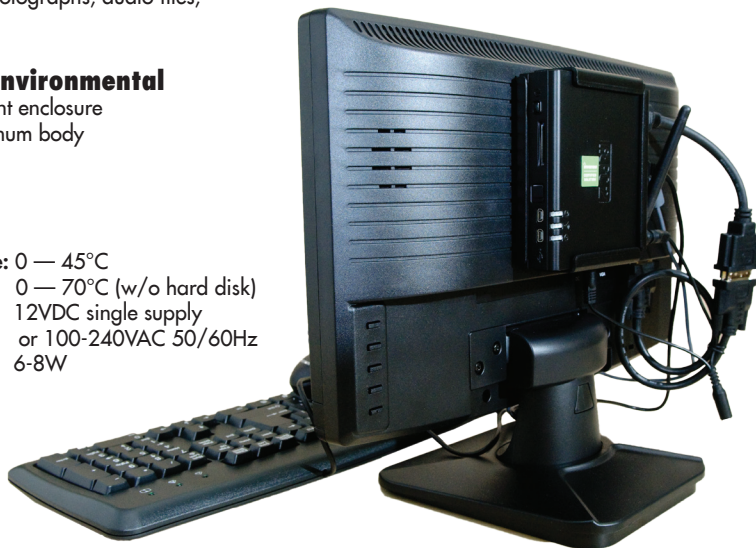
Charge Controller



Battery



Computing Station



## Liquid Crystal Display

### Panel Size

15.6" diagonal (39.6 cm)

### Pixel Pitch

0.252 mm

### Brightness

220 cd/m<sup>2</sup>

### Contrast Ratio

500:1

### Response Time

5 ms

### Backlight

low power white LED

### Viewing Angle (H / V)

150°H / 135°V

### Video Input: DVI or VGA

(15-pin, D-sub connector)

### Display Area

344.2(W) x 193.5 (H) mm

13.6 (W) x 7.6 (H) inch

### Frequency

31-70KHz (Horizontal); 55-75Hz (Vertical)

### Average Power Consumption

7W

### Power Supply Input

12VDC single supply, or 100-240VAC 50-60Hz



## Environmental

Splash and dust resistant enclosure

**Powered on:** 0° to 50°C (32° to 122°F)

**Powered off:** 0° to 50°C (32° to 122°F)

Convention Cooling, fanless design

**Humidity:** 10% to 85% noncondensing

**Altitude range:** 0 to 5,000 meters

(0 to 16,400 feet) operating

**Dimensions(set size):** 415(W) x 407(H) x 118(D) mm

16.4(W) x 16.0(H) x 4.6(D) in

**Safety and EMI:** CE



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