



# SMART CLIENT WL1800

Innovative beyond your desires .....



- 01 ULTRA-LOW POWER CONSUMPTION
- 02 ENVIRONMENTAL PROTECTION
- 03 HIGH DEFINITION PC



## —PAKISTAN'S— FIRST SMART CLIENT

Barebone system with brand new methodology

Black Box WL1800 is a latest bare bone smart client, adopting 12W Intel Celeron 1.8 Ghz Processor. With ultra-low power consumption, it's a new concept of environmental protection, WL1800 features a very mini size (14\*14CM) and intelligent performance, easy to carry & move, and can be wall-mounted with a bracket. The storage, HDD, blue-tooth can be combined freely and expand unlimited. WL1800 own abundant application. Simply said, Black Box WL1800 is a smart client with a low cost.



Best of open Source



Energy Efficiency



Robust Hardware





Secure OS

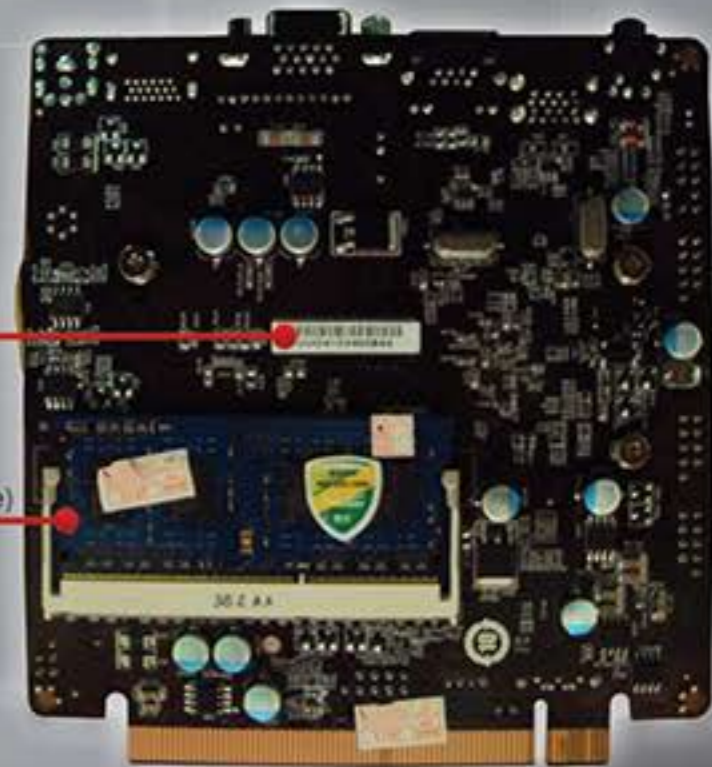
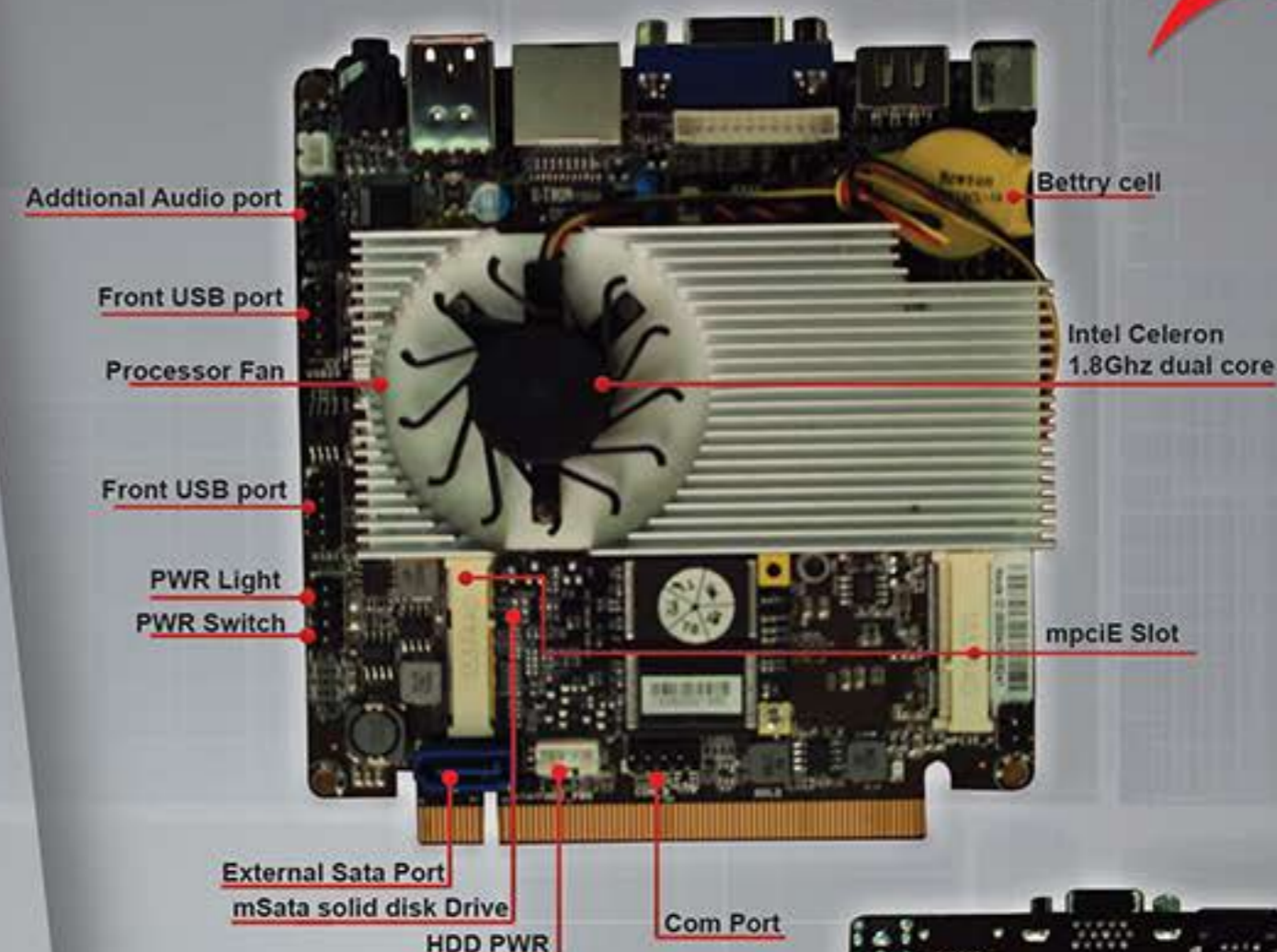


Small & Silent

[www.blackbox.net.pk](http://www.blackbox.net.pk)

# Specifications

Model Number	WL1800
Processor	Intel Celeron 1037U dual core 1.8 Ghz processor
Chipset	Intel® NM70 Express Chipset
Memory	2GB DDR3 SO-DIMM slot (increasable)
Display	Built-in Intel HD Graphics (HD 2000) 1G HD Ggraphics Support 1080P and Blue-ray playback Support D-Sub + HDMI dual display
Audio	Realtek Alc6626 Sund Track HDMI audio
Ethernet	Realtek RTL8111 F Supports 10/100/1000 Mb/Sec.
Storage Interface	Support 1 x 2.5" SATA HDD, 5400 / 7200RPM
Storage	mSata Solid Disk Drive 32GB
Front Panel	(1) Power button (1) Power LED (2) USB 2.0 port
Back Panel	(1) RJ45 LAN port (1) D-sub VGA port (1) HDMI (2) USB 2.0 ports (1) Audio port (1) DC-in
Power	Input 100 – 240V AC Output 12V 3A DC
Dimensions	14cm x 14cm
Accessories	Optional PV01 VESA mount
OS	All Windows or Linux System Supported  



## Features & Advantages:

- 01 Intel® Celeron 1.8 Ghz Dual-Core Processors**  
The Blackbox WL1800 comes with power-saving Intel® Celeron 1037U dual-core 1.8Ghz Processor, and Intel® NM70 Express Chipset, with best-in-class capabilities for various applications.
- 02 Dual Display Support**  
The WL1800 supports HDMI and D-sub dual monitor video outputs which allow users to switch between mirrored and extended desktop mode on external displays. Designers and those in other professions can get more work done and has an increase in productivity.
- 03 VESA Mount Capability**  
Designed to fit easily into any environment, the WL1800 is capable of mounting to the rear of a LED monitor with the standard of VESA mounting. This space saving capability makes it easy to blends into any of your environment.
- 04 24/7 nonstop operation**  
WL1800 is officially approved for 24/7 permanent operation. Thanks to its low power consumption and completely passively cooling, WL1800 runs highly reliable making it perfectly suitable for digital signage and other vertical applications.
- 05 Advanced Graphic Performance**  
WL1800 special built-in Intel HD Graphics (HD2000) 1G HD graphic card fully support for DirectX® 11, enhanced 3D performance and smooth playback of Full HD 1080p Blu-ray high-definition video and audio, provides users with better 3D display performance.
- 06 Generous supply of I/O ports**  
With the slim PC's advantages, WL1800 is small but has multiple I/O ports, contains four USB ports, HDMI and D-sub connector

**Innovative beyond your desires .....**

**Black BO** ™

Save **75%** on hardware,  
Save **85%** on maintenance,  
Save **95%** on power consumption.



**PAKISTAN'S**  first Thin Client that  
support video streaming (HDMI)

**Black Box solution simplify management of your business**

Ensuring security and reducing TCO (Total Cost of Ownership) are no longer fads-they are essentials for any business looking to grow. As an effective solution to both of these issues, thin client systems are rapidly in popularity. Thin client solution eliminates the need for data storage on client terminals by consolidating data and applications that have traditionally been stored on individual PCs. Not only does this minimize the risk of information leaks, it also enables centralized management of multiple terminals, thus reducing operational costs.

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**Bigpond Technology**

# Data Sheet

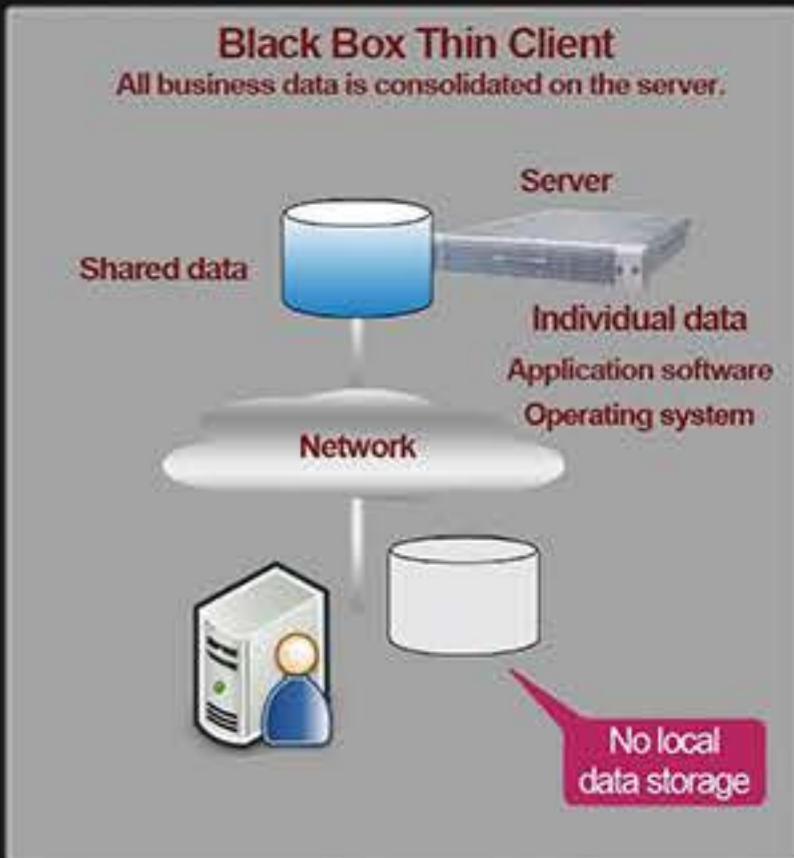
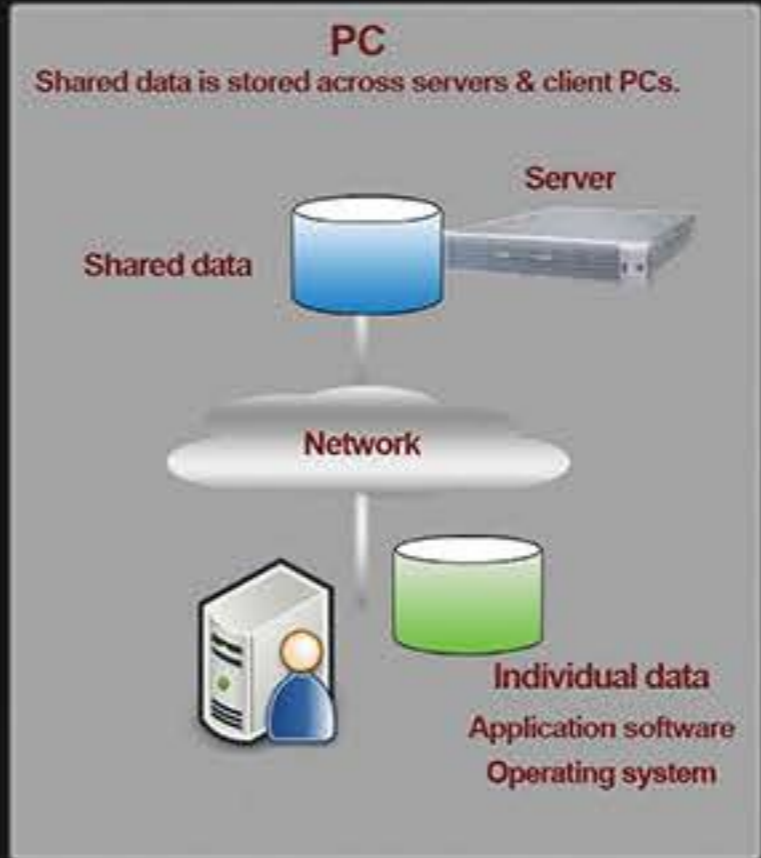
<b>Model Number</b>	<b>NL600</b>	
Framework	ARM-A9	
Processor	Dual Core 1Ghz	
Built-in OS	Embedded linux 2.6 OS	
RAM	512MB	
Video	VGA Resolution	800*600/1024*768/1366X768/1440*900/1280*1024/1280*720/1920*1080
	HDMI Resolution	1280*720/1920*1080(MAX)
USB port	USB2.0 port*3	
Storage	512MB flash	
Video	1080P	
Upgrade	Firmware Update	
Physical Dimensions (mm)	164*116*32MM	
Weight	200g	
Power supply	DC 5V/2A	
Energy consumption	Static Power less than 5W,Maximum Power less than 7.5W	
Video	Support 1080P HD video on remote desktop	The user can install Shine Player in the server first.
Protocol	RDP 7.1	
External port	HDMI, VGA, USB*3, RJ45, Power supply port,Switch port	
Working Temperature	-20 ~50°C	
Video format supported	WMV,AVI,MP4,RM,RMVB,FLV,MKV	

# Server Configuration

User Number	CPU	RAM	HDD
Below 10 users	Intel Core Duo2.0GHZ or above	2GB-4 GB	500GB
10-20 users	IntelCore Duo2.0GHZ above or Quad-Core	4GB-8GB	500GB
20-30 users	Core Quad-Core 2.6GHZ above	8GB	1TB
30-50 users	Xeon dual-core 2.3GHZ above or Quad-Core	8GB-16GB	1TB-2TB



Black Box thin client system brings you tremendous growth opportunities.



### Security

**Risk of Information Leaks**  
Corporate data is compromised as a result of loss or theft of PCs and USB keys.

**Reduce the Risk of Information Leaks**  
No data is stored on the client. The use of peripheral devices such as USB keys is restricted.

### Maintenance

**Increased Management Requirements and Operational Costs**  
Application software, antivirus software and security patches must be installed on each client.

**Consolidated and Efficient Operations Management**  
The installation of application software and security patches is performed on the server only once for multiple terminals. This saves time and labor while ensuring corporate policy compliance.

### Mobility

**No PC, No Work**  
Data and environmental settings are unique to each client PC.

**Get Connected Anywhere**  
Users can access their PC environment wherever there is a terminal that can connect the server.

## The Strong functions for NL600:

- \*For office software,Such as browsing webpage.MS software,the operate speed is very fast and stable as host PC.
- \*It can support instant communicate tools.The microphone works GREAT (with WIN7/2008),Such as Skype calling,MSN,Yahoo,TM etc...
- \*Support online streaming video when connecting with server.(all OS) this is the first thin client that supports streaming video (HDMI) after connecting with server.
- \*RDP 7.1, 32bit color depth(WIN 7/2008),If XP OS,support 24bit color depth.
- \*Support WIN 7/XP/2008/Vista/2000/2003/2008/2012 etc.



**Cloud Computing NL600,turn 1 PC into 2,3,4...50 users!**



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# Black BO™ S100



- 01 ULTRA-LOW POWER CONSUMPTION
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— PAKISTAN'S —  
**F**IRST THIN CLIENT  
WITH PC ATTITUDE..

## BLACK BOX S100

Blackbox Thin Client S100 is a HD video supported, low-cost zero client. With a proprietary encoding technology, Thin Client S100 and its relevant software can extend a standard PC to a server-based computing system which allows up to 100 users to work independently and simultaneously, while providing full experiences of a standard PC, like watching movie, web surfing, mailing, editing document (Word or Excel), voice chatting, etc. Under commercial environment, it is a revolutionary alternative for the traditional PC or thin client.



## SPECIFICATION

<b>CPU</b>	ARM Cortex-A8 1GHz
<b>RAM</b>	512MB DDR3
<b>Storage</b>	2GB NAND Flash
<b>Audio</b>	1 Speaker / 1 Microphone jack
<b>USB</b>	4 Ports with 2.0 High-Speed interface, support external hub
<b>Ethernet</b>	10/100M BASE-T
<b>Display resolutions</b>	1024x768, 1366x768, 1440x900, 1280x1024, 1600x900, 1680x1050, at 60Hz with true color depth.
<b>Power consumption</b>	5W (without external USB devices)
<b>Size</b>	124(W)x75(D)x26(H) mm



## HOST PC CONFIGURATION

User Number	CPU	RAM	HDD
Below 10 users	Intel Core Duo 2.0 GHZ or above	2GB-4GB	500GB
10-20 users	Intel Core Duo 2.0 GHZ above or Quad-Core	4GB-8GB	500GB
20-30 users	Core Quad-Core 2.6 GHZ above	8GB	1TB
30-50 users	Xeon dual-core 2.3 GHZ above or Quad-Core	8GB-16GB	1TB-2TB



## FEATURES & BENEFITS



### PC-class Video Performance:

Thin Client S100 Server Suite Software creates and compresses multiple desktops in the host server with high performance encoding technology.



### Low-latency Audio:

BlackBox Thin Clients provides a low-latency, CD-quality, bidirectional audio solution for all platforms.



### Independent Workspace:

Unlike other brand S100 Thin Client solution, work independent and separate desktop or workspace. Excellent USB Compatibility.



### Desktop Broadcast:

Specially made for MCAI (Multimedia Computer-Assisted Instruction), the function allows the host server to deliver its desktop to one or multiple appointed clients.



### Lower total cost of ownership:

All computing tasks, user management, software installations, system management, the Thin client only consumes 3~5W power.



### Extremely Easy Deployment:

Take few minutes to install Thin Client Server Suite Software and then add a work station will become a plug and play job.

**Cloud Computing S100, turn 1 PC into 2,3,4... 100 users!**



### Bigpond Technology

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