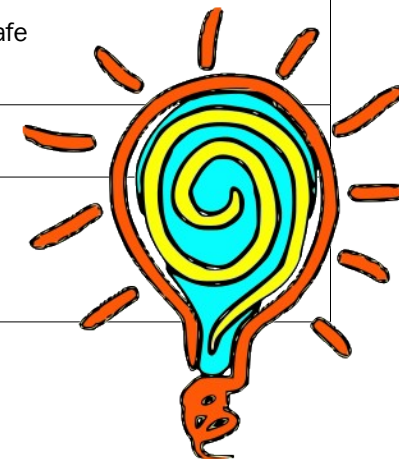


MicroClient Comparison with x86 Thin Clients

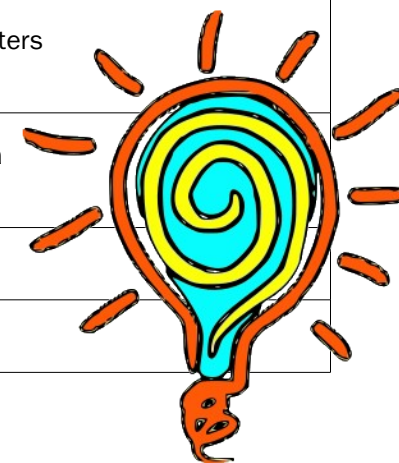


Comparison of an x86 Thin Client with a MicroClient

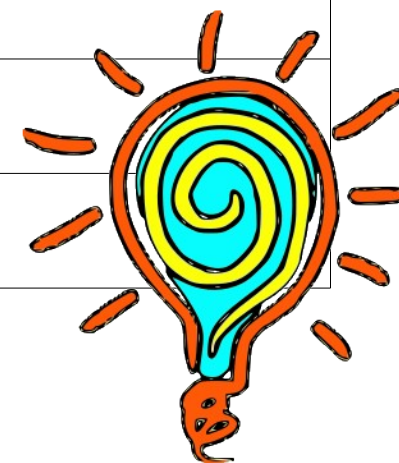
Traditional Thin Clients		MicroClient MC02	Remarks
Commercial			
Cost of acquisition (excluding display)	Minimum Rs. 8,000	Only Rs. 6,000	Advantage of Rs. 2,000 per device on acquisition cost
Average life expectancy	5 ~ 7 years	10+ years	Long term value of product
Power consumption	<20 W	<5 W	Life long savings in power bills. Much longer runtime on UPS.
Hardware Specifications			
Processor	VIA x86 800MHz	VIA VT8500 SoC ARM 300MHz + DSP 300MHz	Newer generation SoC processor technology provides better performance while consuming lower energy
Chipset	VIA CN700	Integrated in VT8500 SoC	Less complexity in circuit – single SoC IC replaces multiple large ICs, leading to quicker repairs
Memory	256 MB	256 MB	ARM architecture has inherently better memory utilisation, leading to better performance at the same memory size
Flash Storage	128 ~ 256 MB	2 GB	Much higher storage capacity – future safe product
Physical Specifications			
Size	229 × 226 × 50mm	126 × 127 × 23mm	Compact design. Aesthetic, slim styling.
Volume	>2.5 litres	<400ml	



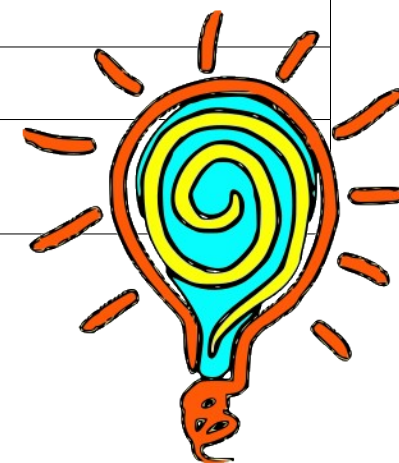
Weight	>2.5 kg	~300gm	
Chassis Design	Steel with ventilation holes all around. Fanless.	Plastic with smooth finishing. No exposed vent holes. Fanless.	There is no dust accumulation inside the MicroClient due to absence of exposed vent holes. Traditional thin clients may require period dust cleaning in adverse areas.
VESA Mounting Kit	Optional.	Standard.	Feather light MicroClient mounts easily, without loading the monitor stand. Thin client weight changes monitor dynamics after mounting.
Orientation	Vertical (book end) or horizontal	VESA mount (behind monitor) or horizontal (table top)	No table space is taken by the MicroClient. Leads to significant reduction in table top clutter. All cables are out of sight.
Indicators	Power, Link, Network Activity	Power, Link, Network Activity, Disk	Stay informed about your MicroClient's status
Power and Environmental Specifications			
Power Supply	Internal	External adapter	Adapter failure does not require MicroClient replacement
Input Voltage	100 ~ 240 V AC, 50~60 Hz, Worldwide Autosensing	100 ~ 240 V AC, 50~60 Hz, Worldwide Autosensing	Works well in erratic power environment. Designed for International use.
Operating Temperature	0 ~ 40°C	0 ~ 60°C	Extended operating range for harsh environment. Suitable for tropical climatic conditions.
Humidity	20% ~ 80% non-condensing	20% ~ 80% non-condensing	
I/O Ports			
Parallel Port	Yes	No. Optional USB to parallel converter can be used.	Additional cost of connecting legacy printers to the MicroClient
Serial Port	Yes	Yes	Connects to legacy systems. Works as a new-age terminal emulator
PS/2 Keyboard-Mouse	Yes	Yes	
VGA port (DB-15)	Yes	Yes	



Kensington Slot	Yes	Yes	Physical security of device
USB 2.0 ports	4	3	USB hub can be used for further expansion.
SD/MMC Flash Slot	No	Yes	Easy and cost effective storage expansion. Can be used as a multi-media playback device for digital signage applications. Ideal for continuously playing presentations or videos.
Spare IDE Flash Slot	Optional	Yes	
Smart Card Reader	Optional	Optional	Enhanced security and automated login of users
VESA Monitor support	Yes, with DDC	Yes, with DDC	Plug-and-play installation of monitors
Maximum Resolution	1600×1200	1024×768	MicroClient not suitable for graphics intensive users such as multi-media designers
Audio	Line In, Line Out, Mic	Speaker, Mic	
Network Connectivity			
Ethernet	10/100Mbps autosensing RJ45	10/100Mbps autosensing RJ45	
Wireless 802.11b/g	Optional	Optional	Easy, cable free working environment. Quick installation.
DSL Modem support	No	Yes – both USB and Ethernet	PPPoE support for DSL dialup
Dialup Modem support	Serial	Both USB and Serial modem	PPP dialup connectivity for remote sites
TCP/IP, DNS	Yes	Yes	
DHCP	Yes	Yes	Quick and automatic network configuration
SNMP	Limited	Full	Provides remote monitoring of critical system parameters



VPN	Yes	Yes	Secure connectivity to central office from home or branch office
Connections			
RDP	Yes	Yes	Windows Terminal Server 2003 and 2008, Windows XP and Vista
VNC	Yes	Yes	Both Linux and Windows
X11 and XDMCP	Yes	Yes	Linux – all versions – RedHat, SUSE, Ubuntu, Fedora, Debian
ICA	Yes	No	No support for Citrix MetaFrame servers
Browser Support	Mozilla Firefox	Limited Support only	
SSH and Telnet	Yes	Yes	UNIX and Linux servers
Serial Terminal Emulation	Yes	Yes	Connects to legacy systems. Works as a new-age terminal emulator or dumb terminal.
NFS and CIFS	Yes	Yes	Share drives, execute remote programs
Auto Start and Restart	Yes	Yes	Quick start for better user experience
Multi Session	Yes	Limited Support only	
Software Features			
PXE Boot	Yes	Yes	
SSH	Yes	Yes	Secure remote access to the system
Remote Management	Yes	Yes	Easy and simple browser based remote configuration of the system



Remote Monitoring	No	Yes	Provides graphical view of critical system parameters, usage, network utilisation. Helps prevent failures before they occur. Provides information to system administrator for better resource planning.
Configuration	Complex System with many technical options.	Very simple configuration system.	Easy to set up for first time users
Upgrades	Remote through client software	Local through pen drive or SD-Card. Remote through browser.	Simple and quick updates of firmware
Partial Upgrades	No. Full firmware must be updated	Yes	Patching possible over low bandwidth WAN links
Session Shadowing	Yes	Yes	Monitor usage, collaborate, and provide user support remotely
Security	Read only file system. Password protected configuration.	Read only FS. Password protection. Firewall.	Enhanced security to deter Internet and local threats
Regulatory Compliance			
FCC	Yes	Yes	
CE	Yes	Yes	
RoHS	Yes	Yes	

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