

H Series

Industrial Thin Client



The thin client for industrial environments

Pram H Series devices are designed to be used in particularly difficult environments. The reliability features of the Thin Client are enhanced by some peculiar characteristics of this series that make them optimal for those who need the maximum reliability.

Dual monitor support

The Intel Atom E3845 Quad Core 1.91 GHz processor with support for up to 8 GB of RAM, ensures high performance in any area of use, and thanks to the HDMI and VGA video outputs you can manage dual monitor workstations.

Extended operating temperature

H Series can operate at temperatures ranging from -5°C to + 50°C, the aluminum chassis guarantees increased heat dissipation

IP40 certified

The chassis is designed to guarantee greater protection against dust according to the certified IP40 protection standard.

Extended connectivity

H Series models install a dual Gigabit LAN card to ensure greater reliability of connection. They can also be equipped with additional connectivity such as an external dual antenna 802.11ac/BlueTooth Wi-Fi card, 3G, LTE and GPS modules.

Multiple connections

These devices provide 1 USB 3.0, 3 USB 2.0 and two serial COM ports (expandable up to 4 total) as well as the presence of a slot for the use of memory cards in SD format.

VESA/Rackable mount

Series H can be installed via a VESA bracket on the back of a display or installed in standard racks with a special DIN rail kit



Processor	Intel Atom E3845 Quad Core 1.91 GHz
Graphics	Intel Gen7 Graphics Engine
Display	Up to 2560x1600 - Dual Monitor support
Power consumption (On/Off)	5.0 W / 0.3 W
Ports	3 USB 2.0 front + 1 USB 3.0 front 1 VGA + 1 HDMI, 2 COM, 1 x Mic. In, 1 x Line Out
Connectivity	2 x Gigabit ethernet
Multimedia	Internal Speaker
Options	Wi-Fi 802.11ac/Bluetooth, dual external antenna Optional 3G, 4G/LTE, 4G/LTE + GPS, single external antenna
Rear mounting kit	Yes
DIN-Rail mounting kit	Yes
Included in the box	Power supply, power cord, USB mouse
Accessories	VESA mounting kit, DIN-rail mounting kit, keyboard, smart card reader, cables and video adapters

Available models

Model	Type	RAM	Flash Disk	Operating System
H1104	-	2 GB	-	-
H9154	Thin Client	2 GB	8 GB	ThinOX
H9114	Thin Client	4 GB	64 GB	Windows 10 IoT

Certifications

- Citrix Ready
- VMware Ready
- Microsoft RemoteFX Enabled



Model Type	H9154 Thin Client	H9114 Thin Client	H1104 No O.S.
Processor / Chipset	Intel Atom E3845 Quad Core 1.91 GHz		
Power supply	External 100/240VAC 50/60Hz, 60W, DC 12V/5A		
Power consumption: On / Stand By	5 W/0.3 W standard, 6 W/0.3 W with Wi-Fi		
Device dimension / weight	182.2 (W) x 54.2 (H) x 159.5 (D) including chassis foot cover / 1.3 Kg		
Packaging dimension / weight	85 (W) x 303 (H) x 295 (D) / 2.3 Kg		
Device certifications / Power supply certifications	CE, FCC Class B, Energy Star 6.1 compliant, EuP-ErP 2013, LVD / CE, FCC Class B, GS TUV,UL		
Chassis	Aluminum		
International Protection Marking	IP 40		
Operational temperature range / humidity	-5°C ÷ 50°C / 20% ÷ 80% non-condensing		
Security lock	-		
Maximum display resolution	Up to 2560 x 1600		
Display ratio	DDC 4:3, 16:10 WIDE		
Color	32 bit		
Display data control	Intel Gen 7		
Built-in speaker	-		
Operating System	ThinOX V10	WIN 10 IoT	-
RAM memory / Flash memory	2GB / 8GB	4GB/64GB	2GB / -
Disk User Partition	~ 50 MB	~ 46GB	-
Input / Output			
USB ports	3 USB 2.0 front + 1 USB 3.0 front		
Monitor Video OUT	1 VGA + 1 HDMI		
Audio - Mic In	1 x 1/8 inch jack		
Audio - Line Out	1 x 1/8 inch jack		
PS2 ports	-		
Serial ports	2 COM		
Parallel ports	With optional USB to parallel cable adapter		
Networking			
RJ45 10/100/1000 Base-T Ethernet	2 x RJ45	2 x RJ45	2 x RJ45
Mounting			
Vertical stand	-	-	-
Horizontal stand	-	-	-
Rear monitor mounting with VESA kit	✓	✓	✓
VESA/WALL/DIN rail mounting kits	✓	✓	✓
Swivel / Pivot / Height Adjustable Stand	-	-	-
Packaging included			
Power cord	✓	✓	✓
DVI-I to VGA adapter	-	-	-
PS2 mouse and keyboard adapter	-	-	-
USB optical mouse	✓	✓	✓
Available factory options			
Wi-Fi Antenna configuration	2 External	2 External	2 External
Built-in 802.11ac wireless / Bluetooth	Factory option	Factory option	Factory option
Built-in 802.11ac wireless	-	-	-
Built-in smart card reader	-	-	-
3G module	On project	On project	On project
4G/LTE module	On project	On project	On project
GPS + LTE module	On project	On project	On project
Additional serial ports (COM)	2 COM on project	2 COM on project	2 COM on project
SD Reader	On project	On project	On project
SIM Slot	On project	On project	On project
RAM memory expansion	Up to 4GB	Up to 8GB	Up to 8GB
Flash memory expansion	-	-	-
Internal optional HDD/SSD 2,5" disk	-	-	-
Add-on Praim MediaStream Codecs	-	-	-
Power over Ethernet (CLASS 4)	-	-	-
Trusted Platform Module (TPM)	-	-	-
	H9154	H9114	
	Thin client	Thin client	
Firmware Version	ThinOX v 10	WIN 10 IoT	
Architecture	x86	x86	-
System type	32 bit	64 bit	-
Version	10.3.4	2.4.0	-
Size	634 MB	~16 GB	-
Quick Boot	-	P	-
UEFI O.S.	-	P	-
UEFI boot	-	P	-
UEFI specification revision	-	2.40	-

Model	H9154	H9114	H1104
Type	Thin client	Thin client	No O.S.
Firmware Version	ThinOX v 10	WIN 10 IoT	No O.S.
Supported protocols			
TCP/IP, DNS, DHCP, SNMP MIB II	✓	✓	-
SSH	✓	-	-
802.1X Ethernet EAP / PEAP MSCHAPV2	✓	✓	-
Protocols clients			
Concurrent connections	Multiple	Multiple	-
Citrix			
Citrix Receiver	12.1.8 / 13.4 / 13.9.1	4.9.100	-
Citrix StoreFront (XenDesktop 7.x XenApp 7.x)	✓	✓	-
Citrix Web Interface (XenDesktop 6.x XenApp 6.x)	✓	✓	-
Native PNAgent	✓	✓	-
Citrix Self Service User Interface	✓	✓	-
Citrix XenApp Agent	✓	-	-
HDX RealTime Optimization Pack - Supported versions	From 1.6 to 2.4	From 1.6 to 2.4	-
HDX RealTime Optimization Pack - Preinstalled	Add-on	Add-on	-
Citrix H.264 Enhanced Supercoded	✓	✓	-
VMware			
VMware Horizon Client	4.8.0	4.7.0	-
RDP protocol	✓	✓	-
PCoIP protocol	✓	✓	-
VMware Blast Extreme protocol	✓	✓	-
Microsoft			
RDP client	Free RDP 1.0 / 1.2	10.0.14.393	-
Supported RDP protocols	7.1 / 8.1	10.2	-
Microsoft RemoteFX	✓	✓	-
RDS app	✓	✓	-
RDVH	✓	✓	-
RDSH	✓	✓	-
Other protocols			
X11 Client	X Server 1.15.1	-	-
SNMP	5.4.3	-	-
Putty	0.62-6	-	-
VNC Client	4.1.1	-	-
ThinPrint	7.0.163.1	-	-
Installed Applications			
Local Browser	Firefox 38.0	Internet Explorer 11	-
Local PDF Viewer	Evince 3.4.0	-	-
Local media player	Totem 3.0.1	Windows Media Player 12	-
JVM / JRE	1.8	-	-
Flash player	Adobe Flash Player 26	Adobe Flash Player 22	-
GStreamer	0.10	-	-
Shell Script	Bash 4.2.24	Power Shell	-
IBM i Access Client	Java client 1.1.4	-	-
PCSC	1.8.14	-	-
Microsoft .NET framework	-	4.6	-
WordPad	-	✓	-
Praim Agile	-	✓	-
Printing			
LPD / LPR / RAW	lpservr 1.1.6	-	-
Printer support	CUPS 1.5.2	-	-
VPN			
Cisco VPN	Ike Shrew Soft 2.2.1	-	-
Dell SonicWall NetExtender	8.0.784	-	-
Open VPN Client	2.3.2	-	-
Add on			
SafeNet EToken Pro	Add-on	-	-
Imprivata One Sign No Click Access agent	Add-on	-	-
Caradigm	Add-on	-	-
OCS Inventory	Add-on	-	-
Emmedi ScanRead VDI	Add-on	-	-
Euronovate	Add-on	-	-
Xyzmo	Add-on	-	-
PRB	Add-on	-	-
Cisco VXME	Add-on	-	-
Warranty			
Hardware warranty - On Center Warranty	3 years	3 years	3 years
Hardware warranty extension	Up to 5 years	Up to 5 years	Up to 5 years