



Hardware and Software Specifications





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On Site Server - Retail Stores

Database Server					
Component/ Number of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683v4 (40MB Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683v4 (40MB Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM - Recommended	16 GB	32 GB	64 GB	64 - 128 GB	128 - 160 GB
Memory / RAM - Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				
Hard Drive - Total Storage	- 500GB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 500GB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 1TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 500GB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 2TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 1TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 3TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 1TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 4TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 2TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)



Operating System	Windows® Server 2012 and 2016				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution - Onsite	At least 1TB NAS (Network-attached Storage) or External Hard Drive				
Backup Solution - Offsite	Pharmacy Safeguard or any HIPAA Compliant Offsite Backup Solution				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Notes	What should not be run on the database server? DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services. The Database Server cannot function as a Web Server. All clients using the Web Portal, mRx Mobile Patient Application, or Mobile Delivery Application must purchase a separate Web Server.				

Web Server (For mRx and Mobile Delivery Apps only) - A separate server is recommended. If the Database Server is above the minimum specifications, a VM (virtual machine) can be added as the webserver. Both Database Server and Web Server should have above minimum server specifications after virtualization.	
Component	Minimum Specifications
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)
Memory / RAM - Minimum	16 GB
Hard Drive - Total Storage	250 GB
Operating System	Windows® Server 2012 and 2016
Internet Connectivity	Broadband or Fiber Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)
Network Card / Ports (1000Mbps)	2 NIC, 1 port each



Notes	<ul style="list-style-type: none"> - IIS 7/8 or 10 should be added to server role. - Static External IP Address is required and will be binded to domain name for the Web Portal. <p>Domain name for the Web Portal is required. A subdomain can be used froman existing domain.</p> <ul style="list-style-type: none"> - SSL Wildcard Certificate for the domain/subdomain will also be required.
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Workstations	Workstations Desktop/Laptop/Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7thGenerationIntel®Core™i5-7500TProcessor (6MB Cache, 2.70 GHz, 4 cores)	7thGenerationIntel®Core™i5-7600KProcessor (6MB Cache, 3.80 GHz, 4 cores)
Memory / RAM - Minimum	4 GB	8 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 10 Professional	Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications		Recommended Specifications		
Wired Network	100 Mbps Ethernet or higher		1000 Mbps Ethernet or higher		
Internet Connectivity	1-10 RemoteUsers	11-25 Remote Users	26-50 Remote Users	51-99 RemoteUsers	100+ RemoteUsers
	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download / 40 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 250 Mbps Download / 100 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 1 GBPS Download / 250 Mbps Upload Speed



Peripherals	
Router	HL7 Interfaces may require a VPN Capable router to setup site to site VPN Tunnel.
Document Printer	PCL5 or higher compatible network printer (All-in-one devices can only be used for printing)
Label Printer	ZebraZT41042-T010000Z-NOCUTTER(forperforatedlabels),ZebraZT41042-T210000Z-WITHCUTTER(for continuous label), or Zebra GX430 Series
Document Scanner	FujitsuFI-6130, FujitsuFI-7160oranyoftheFujitsuFI-Series, BrotherADS2000oranyscannerwithTWAIN compatible drivers. Network scanner not supported.
Barcode Scanner	Symbol/Zebra LS2208 or LS9203 and Honeywell MS Series
Receipt Printer	BixolonSRP350II Series (USB Typewith Drawer Kickout Connector) or BixolonSRP350III Series (USB Type with Drawer Kickout Connector)
Signature Pad	Topaz Systems TM-LBK755SE-HSB-R, TM-LBK755-HSB-R and TM-LBK766SE-HSB-R
Cash Drawer	MSCashDrawer CF-405 (must be receipt printer driven, check compatibility with Receipt Printer) or any Printer Driven Cash Drawer (check compatibility with Receipt Printer)
Magnetic Swipe Reader	Idtech IDRE-335133B
Weighting Scale	Ohaus Explorer EX1103N Balance Scale, Sartorius Quintix Series
Mobile Delivery Device	7"or10.1"TabletswithAndroidOS5orhigher(with3Gor4Gcapability)or10.1"AppleiPadwithiOS10or higher (with 3G or 4G capability)
mRx	Android or iOS Smartphones
Supplementary Backup	NAS or a Network Shared Drive with at least 500GB disk space and capable of adding more as the need arises. Storage size differs to the number of users connecting to DB and is mentioned on the first page under "Hard Drive Storage."



On Site Server - LTC Stores

Database Server					
Component / Number Of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683v4 (40MB Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683v4 (40MB Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM - Recommended	16 GB	32 GB	64 GB	64 - 128 GB	128 - 160 GB
Memory / RAM - Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				



Hard Drive - Total Storage	- 500GB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 500GB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 1TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 500GB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 2TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 1TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 3TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 1TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 4TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 2TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)
Operating System	Windows® Server 2012 and 2016				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution - Onsite	At least 1TB NAS (Network-attached Storage) or External Hard Drive				
Backup Solution - Offsite	Pharmacy Safeguard or any HIPAA Compliant Offsite Backup Solution				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Notes	What should not be run on the database server? DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services. The Database Server cannot function as a Web Server. All clients using the Web Portal, mRx Mobile Patient Application, or Mobile Delivery Application must purchase a separate Web Server.				



Web Server / Pharmacy Portal		
<ul style="list-style-type: none"> - All clients using the Web Portal must purchase a separate Web Server. The Database Server cannot function as a Web Server. - For clients using mRx or Mobile Delivery (No Web Portal), a separate server is recommended. If the Database Server is above the minimum specifications, a VM (virtual machine) can be added as the webserver. Both Database Server and Web Server should have above minimum server specifications after virtualization. 		
Component	Minimum Specifications	Recommended Specifications
Processor	Intel®Xeon®Processor E5-2640v4(25MBCache, 2.40 GHz, 10 Cores)	Intel®Xeon®Processor E5-2683v4(40MBCache, 2.1 GHz, 16 Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2012 and 2016	Windows® Server 2012 and 2016
Internet Connectivity	BroadbandInternetconnectionwithstaticIP addressrequiredforonlineservices.	BroadbandInternetconnectionwithstaticIP addressrequiredforonlineservices.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each
Notes	<ul style="list-style-type: none"> - IIS 7/8 should be added to server role. - Static External IP Address is required and will be binded to domain name for the Web Portal. - Domain name for the Web Portal is required. A subdomain can be used from an existing domain. - SSL Wildcard Certificate for the domain/subdomain will also be required. 	

Workstations	Workstations Desktop/Laptop/Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7thGenerationIntel®Core™i5-7500TProcessor (6MBCache, 2.70 GHz, 4 cores)	7thGenerationIntel®Core™i5-7600KProcessor (6MBCache, 3.80 GHz, 4 cores)



Memory / RAM - Minimum	8 GB	16 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 10 Professional	Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications		Recommended Specifications		
Wired Network	100 Mbps Ethernet or higher		1000 Mbps Ethernet or higher		
Internet Connectivity	1-10 RemoteUsers	11-25 Remote Users	26-50 Remote Users	51-99 RemoteUsers	100+ RemoteUsers
	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download / 40 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 250 Mbps Download / 100 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 1 GBPS Download / 250 Mbps Upload Speed

Peripherals	
Router	HL7 Interfaces may require a VPN Capable router to setup site to site VPN Tunnel.
Document Printer	PCL5 or higher compatible network printer (All-in-one devices can only be used for printing)
Label Printer	ZebraZT41042-T010000Z-NOCUTTER(forperforatedlabels),ZebraZT41042-T210000Z-WITHCUTTER(for continuous label), or Zebra GX430 Series
Document Scanner	FujitsuFI-6130,FujitsuFI-7160oranyoftheFujitsuFI-Series,BrotherADS2000oranyscannerwithTWAIN compatible drivers. Network scanner not supported.
Barcode Scanner	Symbol/Zebra LS2208 or LS9203 and Honeywell MS Series
Weighting Scale	Ohaus Explorer EX1103N Balance Scale, Sartorius Quintix Series



Mobile Delivery Device	7" or 10.1" Tablets with Android OS 5 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS 10 or higher (with 3G or 4G capability)
mRx	Android or iOS Smartphones
Supplementary Backup	NAS or a Network Shared Drive with at least 500GB disk space and capable of adding more as the need arises. Storage size differs to the number of users connecting to DB and is mentioned on the first page under "Hard Drive Storage."

On Site Server - Combo Stores

Database Server					
Component / Number Of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683v4 (40MB Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683v4 (40MB Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM - Recommended	16 GB	32 GB	64 GB	64 - 128 GB	128 - 160 GB
Memory / RAM - Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				



Hard Drive - Total Storage	- 500GB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 500GB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 1TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 500GB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 2TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 1TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 3TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 1TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	- 4TB SCSI 15K RPM or SSD (Dedicated IPS Drive) - 2TB SCSI 15K RPM or SSD (Dedicated Backup Drive on NAS) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)
Operating System	Windows® Server 2012 and 2016				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution - Onsite	At least 1TB NAS (Network-attached Storage) or External Hard Drive				
Backup Solution - Offsite	Pharmacy Safeguard or any HIPAA Compliant Offsite Backup Solution				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Notes	What should not be run on the database server? DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services. The Database Server cannot function as a Web Server. All clients using the Web Portal, mRx Mobile Patient Application, or Mobile Delivery Application must purchase a separate Web Server.				



Web Server / Pharmacy Portal		
<ul style="list-style-type: none">- All clients using the Web Portal must purchase a separate Web Server. The Database Server cannot function as a Web Server.- For clients using mRx or Mobile Delivery (No Web Portal), a separate server is recommended. If the Database Server is above the minimum specifications, a VM (virtual machine) can be added as the webserver. Both Database Server and Web Server should have above minimum server specifications after virtualization.		
Component	Minimum Specifications	Recommended Specifications
Processor	Intel® Xeon® Processor E5-2640v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683v4 (40M Cache, 2.1 GHz, 16 Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2012 and 2016	Windows® Server 2012 and 2016
Internet Connectivity	Broadband or Fiber Internet connection with static IP address required for online services.	Broadband or Fiber Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each
Notes	<ul style="list-style-type: none">- IIS 7/8 should be added to server role.- Static External IP Address is required and will be binded to domain name for the Web Portal.- Domain name for the Web Portal is required. A subdomain can be used from an existing domain.- SSL Wildcard Certificate for the domain/subdomain will also be required.	

Workstations	Workstations Desktop/Laptop/Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7th Generation Intel® Core™ i5-7500T Processor (6MB Cache, 2.70 GHz, 4 cores)	7th Generation Intel® Core™ i5-7600K Processor (6MB Cache, 3.80 GHz, 4 cores)
Memory / RAM - Minimum	8 GB	16 GB



Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 10 Professional	Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications		Recommended Specifications		
Wired Network	100 Mbps Ethernet or higher		1000 Mbps Ethernet or higher		
Internet Connectivity	1-10 RemoteUsers	11-25 Remote Users	26-50 Remote Users	51-99 RemoteUsers	100+ RemoteUsers
	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download / 40 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 250 Mbps Download / 100 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 1 GBPS Download / 250 Mbps Upload Speed

Peripherals	
Router	HL7 Interfaces may require a VPN Capable router to setup site to site VPN Tunnel.
Document Printer	PCL5 or higher compatible network printer (All-in-one devices can only be used for printing)
Label Printer	ZebraZT41042-T010000Z-NOCUTTER(forperforatedlabels),ZebraZT41042-T210000Z-WITHCUTTER(for continuous label), or Zebra GX430 Series
Document Scanner	FujitsuFI-6130,FujitsuFI-7160oranyoftheFujitsuFI-Series,BrotherADS2000oranyscannerwithTWAIN compatible drivers. Network scanner not supported.
Barcode Scanner	Symbol/Zebra LS2208 or LS9203 and Honeywell MS Series
Receipt Printer	BixolonSRP 350II Series(USB Typewith Drawer Kickout Connector)orBixolonSRP 350III Series(USB Type with Drawer Kickout Connector)
Signature Pad	Topaz Systems TM-LBK755SE-HSB-R, TM-LBK755-HSB-R and TM-LBK766SE-HSB-R



Cash Drawer	MSCashDrawer CF-405 (must be receipt printer driven, check compatibility with Receipt Printer) or any Printer Driven Cash Drawer (check compatibility with Receipt Printer)
Magnetic Swipe Reader	Idtech IDRE-335133B
Weighting Scale	Ohaus Explorer EX1103N Balance Scale, Sartorius Quintix Series
Mobile Delivery Device	7"or10.1"TabletswithAndroidOS5orhigher(with3Gor4Gcapability)or10.1"AppleiPadwithiOS10or higher(with3G or 4G capability)
mRx	Android or iOS Smartphones
Supplementary Backup	NAS or a Network Shared Drive with at least 500GB disk space and capable of adding more as the need arises. Storage size differs to the number of users connecting to DB and is mentioned on the first page under "Hard Drive Storage."

Host Based System – Retail Stores

Database Server					
Component / NumberOfUsers	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650 v4(15MBCache,3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MBCache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40MB Cache,2.1 GHz, 16Cores)	Intel® Xeon® Processor E5-2698 v4(50MBCache,2.2 GHz, 20Cores)	Intel® Xeon® Processor E5-4669 v4 (55MBCache, 2.2 GHz, 22Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620	Intel® Xeon® ProcessorE5-1650v4	Intel® Xeon® Processor E5-2640	Intel® Xeon® Processor E5-2683	Intel® Xeon® Processor E5-2698
	v4(10MBCache,3.50 GHz, 4 cores)	(15MB Cache, 3.60 GHz, 6 cores)	v4 (25MB Cache, 2.40 GHz, 10 Cores)	v4(40MBCache,2.1 GHz, 16Cores)	v4(50MBCache,2.2 GHz, 20Cores)
Memory / RAM - Recommended	16 GB	32 GB	64 GB	64 - 128 GB	128 - 160 GB
Memory / RAM - Minimum	8 GB	16 GB	32 GB	64 GB	128 GB



Disk Configuration	RAID 1 or RAID 5				
Hard Drive - Total Storage	500GB SCSI 15K RPM or SSD (Dedicated IPS Drive)	1TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	2TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	3 TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	4 TB SCSI 15K RPM or SSD (Dedicated IPS Drive)
Operating System	Windows® Server 2012 and 2016				
Network Card / Ports(1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution - Onsite	At least 1TB NAS (Network-attached Storage) or External Hard Drive				
Backup Solution - Offsite	Pharmacy Safeguard or any HIPAA Compliant Offsite Backup Solution				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Notes	What should not be run on the database server? DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services.				

Terminal Server		
Component	Minimum Specifications	Recommended Specifications
Processor	Intel®Xeon®Processor E5-2640v4(25MB Cache, 2.40 GHz, 10 Cores)	Intel®Xeon®Processor E5-2683v4(40MBCache, 2.1GHz, 16Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2012	Windows® Server 2012
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	



	1-10 RemoteUsers	11-25 Remote Users	26-50 Remote Users	51-99 RemoteUsers	100+ RemoteUsers
Internet Connectivity	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download / 40 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 250 Mbps Download / 100 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 1 GBPS Download / 250 Mbps Upload Speed
Notes	8 RDP Users per Terminal Server				

Web Server (For mRx and Mobile Delivery Apps only) - A separate server is recommended. If the Database Server is above the minimum specifications, a VM (virtual machine) can be added as the webserver. Both Database Server and Web Server should have above minimum server specifications after virtualization.	
Component	Minimum Specifications
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)
Memory / RAM - Minimum	16 GB
Hard Drive - Total Storage	250 GB
Operating System	Windows® Server 2012 and 2016
Internet Connectivity	Broadband or Fiber Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)
Network Card / Ports (1000Mbps)	2 NIC, 1 port each
Notes	- IIS 7/8 should be added to server role. - Static External IP Address is required and will be binded to domain name for the Web Portal. Domain name for the Web Portal is required. A subdomain can be used from an existing domain. - SSL Wildcard Certificate for the domain/subdomain will also be required.



Workstations	Workstations Desktop/Laptop/Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7th Generation Intel® Core™ i5-7500T Processor (6MB Cache, 2.70 GHz, 4 cores)	7th Generation Intel® Core™ i5-7600K Processor (6MB Cache, 3.80 GHz, 4 cores)
Memory / RAM - Minimum	4 GB	8 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 10 Professional	Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications		Recommended Specifications		
Wired Network	100 Mbps Ethernet or higher		1000 Mbps Ethernet or higher		
Internet Connectivity	1-10 Remote Users	11-25 Remote Users	26-50 Remote Users	51-99 Remote Users	100+ Remote Users
	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download / 40 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 250 Mbps Download / 100 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 1 GBPS Download / 250 Mbps Upload Speed
Notes	8 RDP Users per Terminal Server				

Peripherals	
Router	<p>VPN Enabled Router (e.g. Sonicwall TZ100l)</p> <p>AVPN Tunnel Setup from the Hosting Provider to the Pharmacy is required. The Pharmacy IT Resource (who is experienced in Site to Site VPN Setup) will work with the Hosting Provider to set this up for the pharmacy.</p>



Document Printer	All printing will be tunneled through the VPN. A network printer is required with at least PCL5 compatibility. All-in-one devices should not be used for scanning but for printing only. Host-based printers will not work for Citrix/Terminal Server Environment.
Label Printer	All printing will be tunneled through the VPN. Zebra ZT41042-T010000Z - NO CUTTER (for perforated labels), Zebra ZT41042-T210000Z - WITH CUTTER (for continuous label), or Zebra GX430 Series All labels printers must be networked.
Document Scanner	Fujitsu FI-6130, Brother ADS 2000 or any scanner with TWAIN compatible drivers. Network scanners are not supported. Unlimited TSScan license is needed.
Barcode Scanner	Symbol/Zebra LS2208 or LS9203 and Honeywell MS Series
Receipt Printer	Bixolon SRP 350II Series (USB Type with Drawer Kickout Connector) or Bixolon SRP 350III Series (USB Type with Drawer Kickout Connector)
Signature Pad	Topaz Systems T-LBK755SE-BBSB-R OR T-LBK755-BBSB-R
Magnetic Swipe Reader	Idtech IDRE-335133B Credit Card Swiper
Cash Drawer	MSCashDrawer CF-405 (must be receipt printer driven, check compatibility with Receipt Printer) or any Printer Driven Cash Drawer (check compatibility with Receipt Printer)
Weighting Scale	Ohaus Explorer EX1103N Balance Scale, Sartorius Quintix Series
Mobile Delivery Device	7" or 10.1" Tablets with Android OS 5 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS 10 or higher (with 3G or 4G capability)
mRx	Android or iOS Smartphones



Host Based System – LTC Stores

Database Server					
Component / NumberOfUsers	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650 v4 (15MBCache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MBCache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4(40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MBCache, 2.2 GHz, 20Cores)	Intel® Xeon® Processor E5-4669 v4 (55MBCache, 2.2 GHz, 22Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MBCache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MBCache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40MBCache, 2.1 GHz, 16Cores)	Intel® Xeon® Processor E5-2698 v4 (50MBCache, 2.2 GHz, 20Cores)
Memory / RAM - Recommended	16 GB	32 GB	64 GB	64 - 128 GB	128 - 160 GB
Memory / RAM - Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				
Hard Drive - Total Storage	500GB SCSI 15K RPM or SSD (Dedicated IPS Drive)	1TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	2TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	3 TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	4 TB SCSI 15K RPM or SSD (Dedicated IPS Drive)
Operating System	Windows® Server 2012, and 2016				
Network Card / Ports(1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution - Onsite	At least 1TB NAS (Network-attached Storage) or External Hard Drive				
Backup Solution - Offsite	Pharmacy Safeguard or any HIPAA Compliant Offsite Backup Solution				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				



Notes	What should not be run on the database server? DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services.
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Terminal Server					
Component	Minimum Specifications		Recommended Specifications		
Processor	Intel®Xeon®ProcessorE5-2640v4(25MB Cache,2.40 GHz,10 Cores)		Intel®Xeon®ProcessorE5-2683v4(40MBCache,2.1GHz,16Cores)		
Memory / RAM - Minimum	16 GB		32 GB		
Hard Drive - Total Storage	250 GB		500 GB		
Operating System	Windows® Server 2012		Windows® Server 2012		
Network Card / Ports (1000Mbps)	2 NIC, 1 port each				
Internet Connectivity	1-10 RemoteUsers	11-25 Remote Users	26-50 Remote Users	51-99 RemoteUsers	100+ RemoteUsers
	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download / 40 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 250 Mbps Download / 100 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 1 GBPS Download / 250 Mbps Upload Speed
Notes	8 RDP Users per Terminal Server				



Web Server / Pharmacy Portal		
<ul style="list-style-type: none"> - All clients using the Web Portal must purchase a separate Web Server. The Database Server cannot function as a Web Server. - For clients using mRx or Mobile Delivery (No Web Portal), a separate server is recommended. If the Database Server is above the minimum specifications, a VM (virtual machine) can be added as the webserver. Both Database Server and Web Server should have above minimum server specifications after virtualization. 		
Component	Minimum Specifications	Recommended Specifications
Processor	Intel®Xeon®Processor E5-2640v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel®Xeon®Processor E5-2683v4 (40MB Cache, 2.1 GHz, 16 Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2012 and 2016	Windows® Server 2012 and 2016
Internet Connectivity	Broadband Internet connection with static IP address required for online services.	Broadband Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each
Notes	<ul style="list-style-type: none"> - IIS 7/8 should be added to server role. - Static External IP Address is required and will be binded to domain name for the Web Portal. - Domain name for the Web Portal is required. A subdomain can be used from an existing domain. - SSL Wildcard Certificate for the domain/subdomain will also be required. 	

Workstations	Workstations Desktop/Laptop/Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7th Generation Intel® Core™ i5-7500T Processor (6MB Cache, 2.70 GHz, 4 cores)	7th Generation Intel® Core™ i5-7600K Processor (6MB Cache, 3.80 GHz, 4 cores)



Memory / RAM - Minimum	8 GB	16 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 10 Professional	Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications		Recommended Specifications		
Wired Network	100 Mbps Ethernet or higher		1000 Mbps Ethernet or higher		
Internet Connectivity	1-10 Remote Users	11-25 Remote Users	26-50 Remote Users	51-99 Remote Users	100+ Remote Users
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download /40 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 250 Mbps Download /100 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 1 GBPS Download /250 Mbps Upload Speed
Notes	8 RDP Users per Terminal Server				

Peripherals	
Router	VPN Enabled Router (e.g. Sonicwall TZ100l) AVPN Tunnel Setup from the Hosting Provider to the Pharmacy is required. The Pharmacy IT Resource (who is experienced in Site to Site VPN Setup) will work with the Hosting Provider to set this up for the pharmacy.
Document Printer	All printing will be tunneled through the VPN. A network printer is required with at least PCL5 compatibility. All-in-one devices should not be used for scanning but for printing only. Host-based printers will not work for Citrix/Terminal Server Environment.



Label Printer	All printing will be tunneled through the VPN. Zebra ZT41042-T010000Z - NO CUTTER (for perforated labels), Zebra ZT41042-T210000Z - WITH CUTTER (for continuous label), or Zebra GX430 Series All labels printers must be networked.
Document Scanner	Fujitsu FI-6130, Brother ADS 2000 or any scanner with TWAIN compatible drivers. Network scanners are not supported. Unlimited TSScan license is needed.
Barcode Scanner	Symbol/Zebra LS2208 or LS9203 and Honeywell MS Series
Weighting Scale	Ohaus Explorer EX1103N Balance Scale, Sartorius Quintix Series
Mobile Delivery Device	7" or 10.1" Tablets with Android OS 5 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS 10 or higher (with 3G or 4G capability)
mRx	Android or iOS Smartphones

Host Based System – Combo Stores

Database Server					
Component / Number Of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40MB Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM - Recommended	16 GB	32 GB	64 GB	64 - 128 GB	128 - 160 GB



Hardware and Software Specifications

Memory / RAM - Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				
Hard Drive - Total Storage	500GB SCSI 15K RPM or SSD (Dedicated IPS Drive)	1TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	2TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	3 TB SCSI 15K RPM or SSD (Dedicated IPS Drive)	4 TB SCSI 15K RPM or SSD (Dedicated IPS Drive)
Operating System	Windows® Server 2012, and 2016				
Network Card / Ports(1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution - Onsite	At least 1TB NAS (Network-attached Storage) or External Hard Drive				
Backup Solution - Offsite	Pharmacy Safeguard or any HIPAA Compliant Offsite Backup Solution				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Notes	What should not be run on the database server? DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services.				

Terminal Server		
Component	Minimum Specifications	Recommended Specifications
Processor	Intel®Xeon®Processor E5-2640v4(25MB Cache, 2.40 GHz, 10 Cores)	Intel®Xeon®Processor E5-2683v4(40MB Cache, 2.1GHz, 16 Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2012	Windows® Server 2012



Network Card / Ports (1000Mbps)	2 NIC, 1 port each				
Internet Connectivity	1-10 Remote Users	11-25 Remote Users	26-50 Remote Users	51-99 Remote Users	100+ Remote Users
	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download / 20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download / 40 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 250 Mbps Download / 100 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 1 GBPS Download / 250 Mbps Upload Speed
Notes	8 RDP Users per Terminal Server				

Web Server / Pharmacy Portal		
<ul style="list-style-type: none"> - All clients using the Web Portal must purchase a separate Web Server. The Database Server cannot function as a Web Server. - For clients using mRx or Mobile Delivery (No Web Portal), a separate server is recommended. If the Database Server is above the minimum specifications, a VM (virtual machine) can be added as the webserver. Both Database Server and Web Server should have above minimum server specifications after virtualization. 		
Component	Minimum Specifications	Recommended Specifications
Processor	Intel® Xeon® Processor E5-2640v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683v4 (40MB Cache, 2.1 GHz, 16 Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2012 and 2016	Windows® Server 2012 and 2016
Internet Connectivity	Broadband Internet connection with static IP address required for online services.	Broadband Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each



Notes	<ul style="list-style-type: none">- IIS 7/8 should be added to server role.- Static External IP Address is required and will be binded to domain name for the Web Portal.- Domain name for the Web Portal is required. A subdomain can be used from an existing domain.- SSL Wildcard Certificate for the domain/subdomain will also be required.
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Memory / RAM - Minimum	8 GB	16 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 10 Professional	Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications		Recommended Specifications		
Wired Network	100 Mbps Ethernet or higher		1000 Mbps Ethernet or higher		
Internet Connectivity	1-10 Remote Users	11-25 Remote Users	26-50 Remote Users	51-99 Remote Users	100+ Remote Users
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps UploadSpeed	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps UploadSpeed	Broadband or Fiber Internetconnection with at least 100 Mbps Download /40 Mbps UploadSpeed	Broadband or Fiber Internet connection with at least 250 Mbps Download/100 Mbps UploadSpeed	Broadband or Fiber Internet connection with at least 1 GBPS Download /250 Mbps Upload Speed
Notes	8 RDP Users per Terminal Server				



Peripherals	
Router	VPN Enabled Router (e.g. Sonicwall TZ100I) AVPNTunnelSetupfromtheHostingProvidertothePharmacyisrequired.ThePharmacyITResource(who isexperienced inSitetoSiteVPNSetup)willworkwiththeHostingProvidertosetthisupforthePharmacy.
Document Printer	All printing will be tunneled through the VPN. A network printer is required with at least PCL5 compatibility. All-in-one devices should not be used for scanning but for printing only. Host-based printers will not work for Citrix/Terminal Server Environment.
Label Printer	All printing will be tunneled through the VPN. Zebra ZT41042-T010000Z - NO CUTTER (for perforated labels), Zebra ZT41042-T210000Z - WITH CUTTER (for continuous label), or Zebra GX430 Series All labels printers must be networked.
Document Scanner	Fujitsu FI-6130, Brother ADS 2000 or any scanner with TWAIN compatible drivers. Network scanners are not supported. Unlimited TSScan license is needed.
Barcode Scanner	Symbol/Zebra LS2208 or LS9203 and Honeywell MS Series
Receipt Printer	Bixolon SRP 350II Series (USB Type with Drawer Kickout Connector) or Bixolon SRP 350III Series (USB Type with Drawer Kickout Connector)
Signature Pad	Topaz Systems T-LBK755SE-BBSB-R OR T-LBK755-BBSB-R
Magnetic Swipe Reader	Idtech IDRE-335133B Credit Card Swiper
Cash Drawer	MSCashDrawer CF-405 (must be receipt printer driven, check compatibility with Receipt Printer) or any Printer Driven Cash Drawer (check compatibility with Receipt Printer)
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Mobile Delivery Device	7" or 10.1" Tablets with Android OS 5 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS 10 or higher (with 3G or 4G capability)
mRx	Android or iOS Smartphones