

ctrlX OS

FEATURES – ALL VERSIONS

Operating System		Connectivity	
Kernel Maintenance	■	Wi-Fi	■
Ubuntu Maintenance	■	VLAN	■
Included Maintenance Time	5 years	Bandwidth Management	■
BIOS Update via UEFI Capsule Update	■	App Management	
Compliance, Legal, Regulations		Air-Gapped Operation	■
Open Source Software Clearing	■	Transactional Update & Rollback	■
Trademark Compliance	■	Install/Update Apps via Offline-Upload	■
Export Control Compliance (see country list)	■	Install/Update Apps via Internet Repository-Download	■
Software License Management	■	Custom App Development SDK	■
Cyber Resilance Act (CRA) Ready	■	Automation	
IEC62443 SL2 Certified Software Release	■	Data Layer	■
Device Administration		Scheduler	■
Web-Based Management Console	■	Vision	
Network Interfaces (IPv4, IPv6, Proxy)	■	NVidia Driver Integration	■
Date & Time (NTP)	■	Usage	
Backup & Restore	■	Engineering	■
Network Diagnostics	■	Operations	■
Network Discovery (UPnP, MDNS)	■	Digital Infrastructure (ctrlX OS Ecosystem and Community)	
Storage and Removable Media	■	Sell Apps via ctrlX OS Store	■
API Automation (OpenAPI REST)	■	Public Forum for Customer Support	■
System User Access (SSH)	■	<div>■ = Included</div> <div>□ = Supported via Additional Option</div> <div>= Not Available</div>	
Serial Commissioning	■		
Licensing			
Node-Locked (air-gapped, on-device, dongle, TPM)	■		
Security			
User Management	■		
Certificate & Key Management	■		
Secure Boot	■		
Platform Integrity (Signed Apps)	■		
Remote Authentication (LDAP)	■		
Single Sign On (e.g. SAML)	■		
2-factor Authentication	■		
Diagnostics			
Alarm Logbook	■		
Custom Alarms	■		
Remote Logging (SysLog-ng)	■		



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VARIANTS AT A GLANCE

Variants:	Standard	Customized	Premium
	Commercial Off-The-Shelf edition. Fixed image to support a wide variant of x64/AMD64 based devices with a standard feature set.	Customizable image to adapt ctrlX OS to own hardware for specialized periphery support.	Build a custom portfolio offering based on ctrlX OS incl. Ecosystem and possibility for white-labeling .
Off-the-shelf image for PC architectures	■	■	■
Certified compliance to IEC 62443-4-2 Security Level 2 certified by TÜV Rheinland	■	■	■
Consulting for device certification process according to IEC 62443-4-2	□	□	■
Access to ctrlX OS Store	■	■	■
Deploy own applications to ctrlX OS	■	■	■
Maintained security updates and patches	■	■	■
Co-development on system level		□	■
Customization of system image		■	■
Support for customization e.g. custom driver and peripherals integration		■	■
White labeling option		□	■
Customization of underlying digital infrastructure (ctrlX OS Store, Community, etc.)			■

■ = Included

□ = Supported via Additional Option

 = Not Available