





Atom Win 10 IoT 2019 LTSC

QA3 WINDOWS 10 ENTERPRISE 2019 LTSC 64BIT (INTEL ATOM, CAPACITIVE TOUCH)

Legend

	Suggested but not mandatory
	Optional
	Warning
	Cell intentionally left blank

N.	Action	Description
1	Power on	
2	Check BIOS version	BIOS shows Datalogic logo at startup Press DEL to enter in BIOS setup mode BIOS version QA32R984 or next
3	Check BIOS Settings	Advanced-Graphics-Local Flat Panel Type = XGA 1024x768 (006h) Advanced-Graphics-LVDS SSC = 2% Advanced-CPU Configuration-CPU Thermal Configuration-DTS = enabled Advanced-PPM Configuration-Max CPU C-state = C7 Advanced-PPM Configuration-S0ix = disabled Advanced-Platform Trust Technology-fTPM = disabled Advanced-Security Configuration-TXE = Enabled Chipset-North Bridge-Max TOLUD = Dynamic Chipset-South Bridge-USB Configuration-XHCI-Mode = Enabled Security-Secure Boot Menu-Secure Boot = Disabled
4	Power off	
5	Microsoft Windows 10 IoT Enterprise 2019 LTSC 64Bit	

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6	Prepare USB stick for Windows 10 installation	USB stick minimum 16GB Create a 16GB FAT32 primary partition Make USB stick bootable using your Windows 10 ISO file
7	Prepare Rhino for Windows 10 installation	Bottom panel: connect keyboard and mouse Top panel: connect USB key
8	Power on	The system must automatically boot without F11 Leave all setting to "English (United States)" Select Custom Install Suggested: only one partition. Select Drive 0 Partition 1 Reboot. Remove USB stick before restart Again automatic reboot Set Region and Keyboard Skip network, No (connect) Set Name and password Suggested: Activity history = No, don't use speech, Location = No, Find = No, Diagnostics = Basic, Inking = No, Experience = No Advertising ID = No Desktop appears Explorer - Driver C: - Rename your drive System - Rename this PC - Set with you favourite name
9	Shutdown with SHIFT key pressed	Fast startup is active, so SHIFT key required for complete shutdown
10	Region, Regional format	Set your favourite Date&Time zone
11	Screen, buttons, fast startup, Hard disk, Hibernate	System - Power & Sleep Select Balanced Screen Turn off = Never Control Panel - Hardware & Sound - Power Options - Choose what the power buttons do Power Button = Shut down, Sleep button = Do nothing, Change settings that are currently unavailable - Turn on fast startup = unchecked Change plan settings - Change advanced power settings - Hard disk - Turn off hard disk after = never, Sleep - Hibernate = Never

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12	User Account Control	User Account Control settings = Never notify Reboot
13	No paging file	Control Panel - System and Security - System - Advanced system settings - Advanced - Performance - Advanced - Virtual memory Change default "Automatically manage paging file size for all drivers" to "No paging file" Reboot
14	WinSat disable	Task Scheduler - Task Scheduler Library - Microsoft - Windows - Maintenance: Right Click on WinSat Set to Disabled
15	Hibernate disable	Start Command Prompt as administrator Run "powercfg /hibernate off"
16	Windows Error Recovery on startup disable	Start Command Prompt as administrator Run "bcdedit.exe /set BOOTSTATUSPOLICY IgnoreAllFailures"
17	DiagTrack (for Telemetry) disable	Services - Connected User Experiences and Telemetry - Startup type = disabled
18	Reboot	
19	Download drivers and tools	Download drivers from: https://developer.datalogic.com/mobile-computers/tools/dlsoredi See https://developer.datalogic.com/cgi-bin/tools/Datalogic-SORED/ReadMe1st.pdf for details
20	Intel Chipset Device Software	Reboot after installation
21	Intel HD Graphics Driver	Select "Automatically run WINSAT and enable the Windows Aero desktop theme (if supported)" Restart Installation continues Restart WINSAT starts automatically as a Command Prompt. It takes some seconds System - Power & Sleep - Additional power settings - Set Balanced - Change plan settings - Turn off the display = Never
22	ClearType enable	Settings depends on the LCD screen and personal preference.
23	Intel Network Connection Software QA3	
24	Do NOT connect to the Internet	Otherwise Windows will be activated too early.
25	Intel USB 3.0 driver	Driver 10.0.17763.1 14.09.2018 already installed No extra USB 3.0 driver installation required

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26	UART Bridge COM port	Set PortSetting - Advanced - COM Port Number Enhanced = COM1 Standard = COM2
27	UART Serial port to UC	Set PortSetting - Advanced - COM Port Number = COM3
28	Realtek High Definition Audio Driver	
29	Intel Trusted Execution Engine (TXE) QA3	
30	Microchip LAN9500 Device Driver	TaskBook Only
31	RedHat OpenJDK 32 Bit	
32	DL SoftKeys	Select English - Yes Accept the agreement Select Next - Next - Rhino II - Next Set "Install Softwedge", "Install WLANInfo", "Datalogic factory default settings" WARNING: - It changes paging file back to "Automatically manage pageing file size for all drives" (4GB RAM results in about 1408MB page file). See step 13. - It may change Explorer Options, UC settings (Ignition) and DMC settings (Threshold)
33	Touch Screen driver	
34	Touch Screen tools	Copy to "\\Program Files (x86)\DMC\tools (20160112)"
35	Setup Touch Screen	From "\\Program Files (x86)\DMC\tools (20160112)" Use eGalaxTuner_Release.exe to: - Configure the Touch Screen (Parameters tab) - Test the Touch Screen (Draw Test tab - Full Screen button) Use eGalaxCalibration.exe to calibrate the Touch Screen
36	Download Windows Updates Win10 IoT QA3	Download from: https://developer.datalogic.com/mobile-computers/tools/dlsoredi See https://developer.datalogic.com/cgi-bin/tools/Datalogic-SORED/ReadMe1st.pdf for details
37	Windows Updates Phase A	Run as administrator: "Update_<version>-A.bat"

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38	Restart to finish Update installation	
39	Windows Updates Phase B	Run as administrator: "Update_<version>-B.bat" Set Install = yes It may take a long time (up to 1+ hours)
40	Restart to finish Update installation	Working on updates. Restart. Working on updates
41	COM ports settings	Set Registry Key [HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\COM Name Arbiter] ComDB = hex:00 WARNING: - Always check this value after each system update
42	Power off	

Laird (Summit) PE15N models

43	Continue from step 42	
44	Remove Summit PE15N WiFi card	
45	Power on	
46	Laird PE15N Driver	NDIS6 driver installed Select "Custom" Add "Cisco EAP Host Plugins"
47	Power off	
48	Install Summit PE15N card	
49	Power on	
50	Laird Connection Utility setup	To allow Admin login run Laird Connection Utility as administrator Suggested: set "Power-Save" = "CAM"
51	COM ports settings	See step COM ports settings

Sparklan WNFQ-258ACN(BT) models

52	Continue from step 42	
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53	Sparklan BT Driver	
54	Bluetooth options	Devices - Bluetooth & other devices - More Bluetooth options Enable "Show the Bluetooth icon in the notification area"
55	Sparklan WiFi Driver	Select English Reboot not requested, but suggested
56	COM ports settings	See step COM ports settings