

SN 2023/16 - Windows 10 IoT Enterprise 2021 LTSC

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Key Information

Windows 10 IoT Enterprise 2021 LTSC - New LTSC version of Microsoft's Windows 10 IoT Enterprise edition.



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Author(s)	Herbert Wimmer
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Windows 10 IoT Enterprise 2021 LTSC

In November 2021, Microsoft released a new LTSC version of Windows 10 IoT Enterprise based on Windows 10 Enterprise version 21H2 (Build 19044). The new version is called Windows 10 IoT Enterprise 2021 LTSC and is again a long-term support variant with security updates for up to 10 years (after its release).

Windows 10 IoT Enterprise 2021 LTSC basically offers the same features as Windows 10 Enterprise version 21H2 (Build 19044), but without Microsoft Store, Cortana and bundled apps (e.g., Office). Intentionally, it also doesn't receive any mandatory updates. The new version is the ideal Windows 10 edition for machine builders with requests for long term support, smaller footprints, lockdown features, customization and deployment options. For new applications, we strongly recommend using the new Windows 10 IoT Enterprise 2021 LTSC version.

Features

Windows 10 IoT Enterprise 2021 LTSC is based on Windows 10 Enterprise version 21H2 (Build 19044) and offers following new features:

- Microsoft Edge browser support (Internet Explorer has already been discontinued)
- Improved Unified Write Filter (UWF)
- Optimized strip down features

The B&R version of Windows 10 IoT Enterprise 2021 LTSC brings additional benefits regarding customization and lockdown options with updated ADI driver, licensing tool, UWF manager, settings changer,

and language packs. Those images are also pre-installed and activated, where the activation data is also permanently stored on the devices.

The new Windows 10 IoT Enterprise 2021 LTSC is only available as 64-bit version with UEFI boot, the minimum mass storage size is 40 GB and minimum RAM size is 2GB.

With Windows 10 IoT Enterprise 2021 LTSC we now only offer a fixed set on four pre-installed default languages (English EN, German DE, French FR and Spanish ES). Other languages are also not able pre-configurable in IQ, those must be installed via language pack (available on our website, login required).

Scope and availability

Windows 10 IoT Enterprise 2021 LTSC will be offered for the following product families and will be rolled out in three steps:

Step 1 release¹⁾ - March 2023:

- APC2200
- PPC2200
- PPC1200

Step 2 release - April to June 2023:

- APC3100
- PPC3100
- APC910 Skylake
- PPC900 Skylake
- MPC3100

Step 3 release - July 2023:

- APC4100

¹⁾ Already available as pre-release

Details about further rollouts will be continuously published in the GPOS product room.

Licensing model

Windows 10 IoT Enterprise 2021 LTSC is based on the same licensing model as Windows 10 IoT Enterprise 2019 LTSC. Therefore, Microsoft distinguishes three license types based on the following performance classes:

License	Performance class
Entry	Intel ATOM Intel Celeron ¹⁾
Value	Intel Celeron Intel Core i3 Intel Core i5 Intel Xeon ¹⁾
High End	Intel Core i7 Intel Xeon

¹⁾ Only valid for specific CPUs, that Microsoft has classified lower beginning with Windows 10 IoT Enterprise 2021 LTSC (detail about classifications can be found in the table below).

The classification according to the performance class of the processors leads to in a significant price advantage for the lower and mid-range performance segments. The prices of Windows 10 IoT Enterprise 2021 LTSC for the three license types basically remain the same as for the Windows 10 IoT Enterprise 2019 LTSC versions.

Order codes

Based on the supported products and CPU performance classes / license types following order codes are available:

Order code	Material text	License	CPU	Z0 price	Step
5SWW10.1644-MUL	W10IoT E 2021 64b APC2200 APL UEFI	Entry	Intel ATOM E3930 Intel ATOM E3940	83,20 €	1
5SWW10.1645-MUL	W10IoT E 2021 64b PPC2200 APL UEFI	Entry	Intel ATOM E3930 Intel ATOM E3940	83,20 €	1
5SWW10.1665-MUL	W10IoT E 2021 64b PPC1200 APL UEFI	Entry	Intel ATOM E3940	83,20 €	1
5SWW10.1653-MUL	W10IoT E 2021 64b APC3100 KBU UEFI	Entry	Intel Celeron C-3965U	83,20 €	2
5SWW10.1753-MUL	W10IoT V 2021 64b APC3100 KBU UEFI	Value	Intel Core i3-7100U Intel Core i5-7300U	138,80 €	2
5SWW10.1853-MUL	W10IoT H 2021 64b APC3100 KBU UEFI	High End	Intel Core i7-7600U	244,20 €	2
5SWW10.1654-MUL	W10IoT E 2021 64b PPC3100 KBU UEFI	Entry	Intel Celeron C-3965U	83,20 €	2
5SWW10.1754-MUL	W10IoT V 2021 64b PPC3100 KBU UEFI	Value	Intel Core i3-7100U Intel Core i5-7300U	138,80 €	2
5SWW10.1854-MUL	W10IoT H 2021 64b PPC3100 KBU UEFI	High End	Intel Core i7-7600U	244,20 €	2
5SWW10.1657-MUL	W10IoT E 2021 64b APC910 HM170 UEFI	Entry	Intel Celeron C-G3900E	83,20 €	2
5SWW10.1757-MUL	W10IoT V 2021 64b APC910 QM170/HM170 UEFI	Value	Intel Core i3-6100E Intel Core i5-6440EQ	138,80 €	2
5SWW10.1857-MUL	W10IoT H 2021 64b APC910 QM170/CM236 UEFI	High End	Intel Core i7-6820EQ Intel Xeon E3-1515MV5	244,20 €	2
5SWW10.1664-MUL	W10IoT E 2021 64b PPC900 HM170 UEFI	Entry	Intel Celeron C-G3900E	83,20 €	2
5SWW10.1764-MUL	W10IoT V 2021 64b PPC900 QM170/HM170 UEFI	Value	Intel Core i3-6100E Intel Core i5-6440EQ	138,80 €	2
5SWW10.1864-MUL	W10IoT H 2021 64b PPC900 QM170 UEFI	High End	Intel Core i7-6820EQ	244,20 €	2
5SWW10.1662-MUL	W10IoT E 2021 64b MPC3100 KBU UEFI	Entry	Intel Celeron C-3965U	83,20 €	2
5SWW10.1862-MUL	W10IoT H 2021 64b MPC3100 KBU UEFI	High End	Intel Core i7-7600U	244,20 €	2
5SWW10.1666-MUL	W10IoT E 2021 64b APC4100 TGL UEFI	Entry	Intel Celeron C-6600HLE	83,20 €	3

Order code	Material text	License	CPU	Z0 price	Step
5SWW10.1766-MUL	W10IoT V 2021 64b APC4100 TGL UEFI	Value	Intel Core i3-11100HE Intel Core i5-11500HE Intel Xeon w-11155MRE	138,80 €	3
5SWW10.1866-MUL	W10IoT H 2021 64b APC4100 TGL UEFI	High End	Intel Xeon w-11865MRE	244,20 €	3

Recovery solution

For Windows 10 IoT Enterprise 2021 LTSC, there is a recovery solution that can be downloaded from the B&R website (login required). The recovery solution can be used to restore a Windows 10 IoT Enterprise 2021 LTSC recovery solution image that has been damaged or accidentally deleted.

License activation is not affected, because pre-installed and activated systems have the activation data permanently stored on the devices,

Field upgrades

Field upgrades to Windows 10 IoT Enterprise 2021 LTSC are also possible. With that, customers can upgrade supported products (mentioned under Scope and availability) in the field to the latest Windows 10 IoT Enterprise 2021 LTSC version by using the recovery solution and recovery solution image from the B&R website (login required).

This should not be the preferred method of installation and should only be used in exceptional cases where a factory upgrade at the headquarter is not possible. A major disadvantage compared to factory installations is the lack of Windows activation. During a factory installation, the Windows version is also activated, and the activation data is permanently saved on the device. After a field upgrade, the activation must be carried out manually in the field online via Internet or telephone. Another disadvantage is the fact, that in this case the activation data is not permanently stored on the device. In the case of a new installation, the system must be activated again.

Regarding Hypervisor, there are some differences when using a field installed image (recovery solution) vs. a pre-installed and pre-activated Windows 10 IoT Enterprise image. The installation of Hypervisor could cause loss of activation. For more information, please review the corresponding working guide (available on our website, login required).

Field upgrades are only individually released for specific customers after consultation with Product Management. If required, please contact hmi.office@br-automation.com.

Based on the license types, following order codes are available to upgrade supported products in the field to Windows 10 IoT Enterprise 2021 LTSC:

Order code	Material text	License	Z0 price	Step
5SWW10.1900-000	W10IoT E 2021 (COA+EULA)	Entry	83,20 €	1
5SWW10.2000-000	W10IoT V 2021 (COA+EULA)	Value	138,80 €	2+3
5SWW10.2100-000	W10IoT H 2021 (COA+EULA)	High End	244,20 €	2+3