

Appendix I - Minimum technical requirements

REFERENCE MODEL: ALL-PURPOSE NOTEBOOK	
Description	The configuration for this business oriented model of notebook represents a compromise between portability and available functionalities. It is also a possible alternative to replace a desktop computer and therefore has to offer similar main functionalities.
<i>The proposed equipment has to be equivalent or go beyond the minimum mandatory configuration described below:</i>	
CPU	i3 or equivalent
Memory	2slots 8Gb DDR3 in one slot Upgradeable to 16Gb using free slot(s)
BIOS	Power Management standby, hibernation and resume PXE and WOL activated
Display	Diagonal length of at least 14"
Graphics	Aero capable graphics subsystem
Internal storage	SSD 250GB
Optical Unit	Internal DVD +/-RW
Keyboard	Key sets or exchangeable keyboards to fit AZERTY (FR), QWERTY (UK)
Pointing device	Track Point and/or Touchpad and at least 2 mouse buttons
Audio & Video	High Definition audio system Built-in speakers for audio rendering Built-in microphone 1 audio out headphone jack HD 720p video-conference camera integrated
Wired Network	10/100/1000 LAN with RJ45 – Ethernet card PXE and WOL capable
Wireless Network	Integrated WIFI 802.11a/b/g/n capabilities
Ports	3 USB ports (at least 1 USB 3.0 and 1 charging) 1 VGA port 1 DisplayPort
Battery	Removable battery
Power Supply	Auto Sensing 100-240v AC adapter for worldwide usage
Manuals	All documentation manuals supplied electronically for main components instead of on paper support
Software	All necessary drivers and software must be available and Windows 7 Professional Certified

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Operating System Licence	OEM licence MS Windows 7 Professional edition - 64 bit version - English UK version Ready for Windows 8 Client Family
System weight	Notebook including main battery and internal optical drive inferior to 2.3 kg
Security	TPM 1.2
Environmental certificates	Certified compliance with Energy Star 5.2
Associated equipment to All-purpose notebook reference model	
Description	List of enhancements, extensions and options associated with the notebook model (An enhancement is only available to be ordered with the notebook, an extension can be ordered separate of the notebook). Other enhancements and extensions other than mentioned in this list may be proposed.
<i>When available for proposed model, following equipment need to be obtainable – <u>if underlined, the availability of equipment is mandatory</u>:</i>	
Enhancements	<u>Upgrade of standard memory to double capacity</u> <u>Upgrade of standard internal storage to double capacity</u> <u>Extended Warranty up to 4 years</u>
Extensions	<u>Port replicator or universal docking-station</u> AC adaptor and power cable DDR3 8GB RAM <u>1st battery</u> <u>Module to change internal keyboard layout</u> <u>Standard carrying bag for notebook model</u>

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REFERENCE MODEL: LIGHTWEIGHT NOTEBOOK	
Description	The configuration for this business oriented model with good wireless communication capabilities puts priority to a reduced weight and size compared to built-in functionalities
<i>The proposed equipment has to be equivalent or go beyond the minimum mandatory configuration described below:</i>	
CPU	Low-voltage and mobile oriented
Memory	8GB DDR3
BIOS	Power Management standby, hibernation and resume PXE and WOL activated
Display	Diagonal length of at least 12"
Graphics	Aero capable graphics subsystem
Internal storage	SSD 160GB
Keyboard layouts	QWERTY (UK) and AZERTY (FR)
Pointing device	Track Point and/or Touchpad and at least 2 mouse buttons
Audio & Video	Built-in speakers and microphone Built-in Video conference camera
Wired Network	10/100/1000 LAN with RJ45 – Ethernet card PXE and WOL capable
Wireless Network	Integrated WIFI 802.11g/n capabilities Integrated WWAN ready to host SIM card
Ports	2 USB 3.0 ports
Power Supply	Auto Sensing 100-240v AC adapter for worldwide usage
Manuals	All documentation manuals supplied electronically for main components instead of on paper support
Software	All necessary drivers and software must be available and Windows 7 Professional Certified
Operating System Licence	OEM licence MS Windows 7 Professional edition - 64 bit version - English UK version Ready for Windows 8 Client Family
System weight	Notebook including main battery inferior to 1,5kg
Security	TPM 1.2
Environmental certificates	Certified compliance with Energy Star 5.2

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Associated equipment to lightweight laptop	
Description	List of enhancements, extensions and options associated with the notebook model (An enhancement is only available to be ordered with the notebook, an extension can be ordered separate of the notebook). Other enhancements and extensions other than mentioned in this list may be proposed.
<i>When available for proposed model, following equipment need to be obtainable – <u>if underlined, the availability of equipment is mandatory</u>:</i>	
Enhancements	<u>Upgrade of standard memory to double capacity</u> <u>Upgrade of standard internal storage to double capacity</u> <u>Extended Warranty up to 4 years</u>
Extensions	<u>Port replicator or universal docking-station</u> AC adaptor and power cable 1 st Battery <u>Module to change internal keyboard layout</u> <u>Standard carrying bag for lightweight notebook model</u>

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REFERENCE MODEL: 2-IN-1 NOTEBOOK	
Description	The configuration for this business oriented model with good wireless communication capabilities puts priority to a reduced weight and more tablet (touch) oriented functions. The keyboard must be able to be detached from the screen/tablet.
<i>The proposed equipment has to be equivalent or go beyond the minimum mandatory configuration described below:</i>	
CPU	Low-voltage and mobile oriented
Memory	8Gb DDR3
BIOS	Power Management standby, hibernation and resume PXE and WOL activated
Display	Touchscreen with a diagonal length of at least 11.5". Diagonal length of at least 11.5". Detachable from keyboard.
Internal storage	SSD 128Gb
Keyboard layouts	QWERTY (UK) and AZERTY (FR) <i>Remark: availability of other EU member States reference keyboard layout will provide additional points in the technical evaluation</i>
Pointing device	Track Point and/or Touchpad
Audio & Video	Built-in speakers and microphone Built-in Video conference camera
Wired Network	10/100/1000 LAN with RJ45 by means of docking station or other.
Wireless Network	Integrated WIFI 802.11g/n capabilities Integrated WWAN ready to host SIM card
Ports	2 USB 3.0 ports
Power Supply	Auto Sensing 100-240v AC adapter for worldwide usage
Manuals	All documentation manuals supplied electronically for main components instead of on paper support
Software	All necessary drivers and software must be available and Windows 8 Professional Certified
Operating System Licence	OEM licence MS Windows 8.1 Professional edition - 64 bit version - English UK version
System weight	Tablet only: inferior to 1 kg. Including keyboard: inferior to 2kg.
Security	TPM 1.2
Environmental certificates	Certified compliance with Energy Star 5.2

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Associated equipment to 2-in-1 notebook	
Description	List of enhancements, extensions and options associated with the notebook model (An enhancement is only available to be ordered with the notebook, an extension can be ordered separate of the notebook). Other enhancements and extensions other than mentioned in this list may be proposed.
<i>When available for proposed model, following equipment need to be obtainable – <u>if underlined, the availability of equipment is mandatory</u>:</i>	
Enhancements	<u>Extended Warranty up to 4 years</u>
Extensions	<u>Port replicator or universal docking-station</u> AC adaptor and power cable <u>Slim bag for notebook model</u>