

SPECIFICAȚII TEHNICE (F4.1)

Numărul Licitației: nr. 21000310	30200000-1 - Echipament și accesorii pentru computer	Data: 26.11.2018	Alternativa nr. N/A
Denumirea Licitației publice: Ministerul Afacerilor Interne		Valabilitatea ofertei: 30 zile	Pagina __ din __

Nr Lot	Cod CPV	Denumirea bunurilor și/sau a serviciilor	Modelul Articolului Ofertat	Producător/ Tara de origine	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Stand d refer
1	2	3	4	5	6	7	8
2	30200000-1	Computer Type I		<u>Dell/Polonia</u> <u>China</u>	Type Brand Name International Business PC, SFF 22 Processor Processors last generation with min. 3.0 GHz base frequency/6 cores/9MB cache/up to 4.0 GHz turbo frequency/14 nm technology/TDP 65W Memory Options: min. 4x DIMMs: min. 16GB DDR4 2666MHz Storage: min. 1x 1TB 3.5" HDD SATA 7200 rpm; 128GB M.2 2280 PCIe NVMe SSD Storage Controller: min. 3x SATA ports; RAID configuration support Ports: min. 3x USB 3.1 Gen 2 (2x on a front panel); 2x USB 3.1 Gen 2 Type-C (1x on a front panel); 1x PowerShare port USB port on a front panel; RJ45; 3x Audio (1x on a front panel); 2x DisplayPort 1.2 Slots: min. 1x PCIe Gen3 x4 must be free Network: Gigabit Ethernet Controller Graphics Card: min. 2GB 128-bit GDDR5 PCIe x16; min. 2x Display Ports Security: Power-On/Setup Password; Intrusion Sensor; TPM 2.0 Power Supply 80PLUS Platinum Certified Software: MS Windows 10 Pro OEM Input Devices: USB Keyboard (Eng/Rus); USB Laser Mouse Monitor: 2x 23.8"-24" (thin screen frame; IPS; 1920x1080 Native resolution; min. 250 nits; max. 5ms response time; Color Gamut min. 95% of sRGB; Anti-glare and 3H Hard Coating; HDMI, DP, USB 3.0 interfaces; built-in cable-management; Pivot Rotation; Height adjustment stand with range min. 130mm; Display Port Cable) Options: Overhead headphones with Soft pads, built-in microphone and audio control; Dust Filter Warranty: 3 Years for workstation and monitor (Type and warranty period should be available on the official website of the manufacturer or in the form of the original document with the manufacturer's stamp and the serial numbers of the equipment; Any other confirmation of the warranty will be rejected) Other: The desktop (incl. components), monitor and accessories must be of the same manufacturer; must be indicated all Part Numbers of equipment, parts and additional services	<u>Desktop Dell OptiPlex 3060 SFF,</u> CPU: Intel® Core™ i5-8500, S1151, 3.0-4.1GHz (6C/6T), 9MB Cache, Intel® UHD Graphics 630, 14nm 65W/Intel Integrated Graphics RAM 16GB (2X8GB) 2666MHz DDR4 DIMM HDD 1: M.2 256GB SATA Class 20 Solid State Drive, HDD 2: 3.5" HDD 1.0TB 7200rpm, 32MB, SATAIII VGA: 2GB DDR5 128Bit 1556/7108Mhz DVI, HDMI, DisplayPort ODD: 8x DVD+-RW 9.5mm Optical Disk Drive, No Wireless LAN Ports: 4x External USB 3.1 Type-A (2 front/2 rear), 4x External USB 2.0 Type-A (2 front/2 rear), 1x RJ-45, 1x DisplayPort 1.2, 1x HDMI 1.4, 1x UAI, 1x Line-out Slots: 1x M.2 for wireless (22x30mm), 1x M.2 for SSD Small Form Factor with 200W up to 85% efficient Power Supply (80Plus Bronze), Dell Wired Mouse MS116 Black, Dell Wired Keyboard KB216 Black (US/International), OS: Windows 10 Pro 64bit English, Arabic, French, Russian Headphones with Soft pads, built-in microphone and audio control <u>2 x Monitor LED DELL Professional P2419H,</u> 23.8", 1920x1080, 16:9, IPS, 1000:1, 178/178, 5ms, 250 cd/m2, VESA, DisplayPort, HDMI, VGA, USB, Height-adjustable, Pivot <u>Warranty: 3 Years for workstation and monitor</u>	ISO 9 ISO 14 HF, R Mold Stand



3	30200000-1	Computer Type II	Dell/Polonia China	Type Brand Name International Business PC, SFF 25 Processor Processors last generation with min. 3.0 GHz base frequency/6MB cache/14 nm technology/TDP 65W Memory Options: min. 4x DIMMs: min. 8GB DDR4 2666MHz Storage: min. 1x 1TB 3.5" HDD SATA 7200 rpm Storage Controller: min. 3x SATA ports; RAID configuration support Ports: min. 4x USB 3.0 (2x on a front panel); USB Type-C on a front panel; 1x PowerShare USB port on a front panel; RJ45; 3x Audio (1x on a front panel); 2x DisplayPort 1.2; HDMI 2.0; RS232 (Serial) Slots: min. 1x PCIe Gen3 x16; 1x PCIe Gen3 x1 Network: Gigabit Ethernet Controller Graphics Card: integrated Security: Power-On/Setup Password: Intrusion Sensor: TPM 2.0 Power Supply 80PLUS Platinum Certified Software: MS Windows 10 Pro OEM Input Devices: USB Keyboard (Eng/Rus); USB Laser Mouse Monitor: 1x 23.8"-24" (thin screen frame; IPS; 1920x1080 Native resolution; min. 250 nits; max. 5ms response time; Color Gamut min. 95% of sRGB; Anti-glare and 3H Hard Coating; HDMI, DP, USB 3.0 interfaces; built-in cable-management; Pivot Rotation. Height adjustment stand with range min. 130mm, Display Port Cable) Options: Overhead headphones with Soft pads, built-in microphone and audio control; Dust Filter Warranty: 3 Years for workstation and monitor (Type and warranty period should be available on the official website of the manufacturer or in the form of the original document with the manufacturer's stamp and the serial numbers of the equipment. Any other confirmation of the warranty will be rejected) Other: The desktop (incl. components), monitor and accessories must be of the same manufacturer; must be indicated all Part Numbers of equipment, parts and additional services	Desktop Dell OptiPlex 3060 MT, CPU: Intel® Core™ i3-8100, S1151, 3.6GHz (4C/4T), 6MB Cache, Intel® UHD Graphics 630, 14nm 65W/Intel Integrated Graphics RAM 8GB (1X8GB) 2666MHz DDR4 DIMM Non-ECC HDD: 3.5" HDD 1.0TB 7200rpm, 32MB, SATAIII VGA: 2GB DDR3, 902/1600MHz, VGA, DVI, HDMI, ODD: 8x DVD+-RW 9.5mm Optical Disk Drive, No Wireless LAN Ports: 4x External USB 3.1 Type-A (2 front/2 rear), 4x External USB 2.0 Type-A (2 front/2 rear), 1x RJ-45, 1x DisplayPort 1.2, 1x HDMI 1.4, 1x UAI, 1x Line-out Slots: 1x M.2 for wireless (22x30mm), 1x M.2 for SSD MT Form Factor with 260W up to 85% efficient Power Supply (80Plus Bronze) Dell Wired Mouse MS116 Black, Dell Wired Keyboard KB216 Black (US/International), OS: Windows 10 Pro 64bit English, Arabic, French, Russian	ISO 9001 ISO 14001 HF, R Mold Stanc
10	30200000-1	Computer Model Specializat	Dell/Polonia China	Platform Form Factor Full Tower Ports - 2 x USB3.0/2 x USB2.0, HD Audio – front CPU Min 4-cores Processor, min. Generatia 6, Frecventa de baza min. 3.2 GHz, min 6MB cache, 14 nm, max 65W) MB Sockets compatibil cu CPU, RAM (2400MHz) min 2 slots with support up to 32 GB, 1xDisplay port, 1xVGA, DVI, D-SUBsau HDMI port PCI Express x16, M.2 PCIe1 2xUSB 3.1 (front), 4xUSB 2.0sau 3.0 (rear) 2xSATA 6.0Gb/s, 1xGbit LAN, SD Card reader (front) RAM Min: 2x8 GB, frecvențamin. 2400 MHz,compatibila cu placa de baza HDD SATA Min. 1TB, 7200 RPM SATA III Video card Video card Discret, 2GB, with support for 2 monitors Network Network 1 on board Ethernet 10/100/1000 Optical drive DVD-R+2x/-22x, RW+8x/-6x, SATA, black Sound card Sound card integrated Ports 2xUSB 3.1 (front), 4xUSB 2.0sau 3.0 (rear) 1xDisplay port, 1xVGA, DVI, DSUBsauHDMI port PS/2 optional, Audio, Lan RJ45 Keyboard PS/2&USB, Eng/Rus Mouse PS/2&USB, optical, scrolling Spikers	Desktop Dell OptiPlex 3060 MT, CPU: Intel® Core™ i3-8100, S1151, 3.6GHz (4C/4T), 6MB Cache, Intel® UHD Graphics 630, 14nm 65W/Intel Integrated Graphics RAM 16GB (2X8GB) 2666MHz DDR4 DIMM Non-ECC HDD: 3.5" HDD 1.0TB 7200rpm, 32MB, SATAIII VGA: 2GB DDR3, 902/1600MHz, VGA, DVI, HDMI, ODD: 8x DVD+-RW 9.5mm Optical Disk Drive, No Wireless LAN Ports: 4x External USB 3.1 Type-A (2 front/2 rear), 4x External USB 2.0 Type-A (2 front/2 rear), 1x RJ-45, 1x DisplayPort 1.2, 1x HDMI 1.4, 1x UAI, 1x Line-out Slots: 1x M.2 for wireless (22x30mm), 1x M.2 for SSD MT Form Factor with 260W up to 85% efficient Power Supply (80Plus Bronze) Dell Wired Mouse MS116 Black, Dell Wired Keyboard KB216 Black (US/International), OS: Windows 10 Pro 64bit English, Arabic, French, Russian	ISO 9001 ISO 14001 HF, R Mold Stanc



	Computer Model Specializat	Dell OptiPlex 3060 MT DELL S2319H Tuncmatik Lite II 850V A/480W	2 x Monitor Dell 24" S2419H LED IPS FHD (1920 x 1080 at 60 Hz), Aspect Ratio: 16:9, Low Haze with 3H hardness, Response Time: 5 ms gray to gray (typ), Brightness: 250 cd/m2 (typical), contrast 1000:1 (typical), Dynamic Contrast Ratio : 8 Million: 1, Viewing Angle: 1780 vertical / 1780 horizontal, Connectivity: 2x HDMI 1.4, 1x Audio Line-out, 2x 5W Waves, Stand base, 1x Power cable, 1x Power adapter, 1x HDMI 1.4 cable, UPS Tuncmatik Dexter 1000VA/600W, Line-interactive, AVR, 4x Schuko grounded sockets, range 162V-290V, Frequency 50/60Hz Surge Protector 5 Sockets, 5.0m, Sven "SF-05L", BLACK flame-retardant material Antivirus Bitdefender Total Security 12 luni Warranty: 3 Years for workstation and monitor
11	30200000-1	Dell/Polonia China Tuncmatik Turcia	Desktop Dell OptiPlex 3060 MT, CPU: Intel® Core™ i3-8100, S1151, 3.6GHz (4C/4T), 6MB Cache, Intel® UHD Graphics 630, 14nm 65W/Intel Integrated Graphics RAM 8GB (1X8GB) 2666MHz DDR4 DIMM Non-ECC HDD: 3.5" HDD 1.0TB 7200rpm, 32MB, SATAIII VGA: Intel® UHD Graphics 630 ODD: 8x DVD+-RW 9.5mm Optical Disk Drive, No Wireless LAN Ports: 4x External USB 3.1 Type-A (2 front/2 rear), 4x External USB 2.0 Type-A (2 front/2 rear), 1x RJ-45, 1x DisplayPort 1.2, 1x HDMI 1.4, 1x UAJ, 1x Line-out Slots: 1x M.2 for wireless (22x30mm), 1x M.2 for SSD MT Form Factor with 260W up to 85% efficient Power Supply (80Plus Bronze) Dell Wired Mouse MS1116 Black, Dell Wired Keyboard KKB216 Black (US/International), OS: Windows 10 Pro 64bit English, Arabic, French, Russian Monitor 23.0" DELL IPS LED S2319H Borderless Black (5ms, 8M:1, 250cd, 1920x1080, Tilt, 1x HDMI 1.4/1x VGA/1x Audio Line-in/1x Audio Line-out, Speakers) UPS Tuncmatik Lite II 850VA/480W, Line-interactive, CPU, 2x Schuko grounded sockets, range 162-265 VAC, Frequency 50/60Hz Surge Protector 5 Sockets, 5.0m, Sven "SF-05L", BLACK flame-retardant material Antivirus Bitdefender Total Security 12 luni Warranty: 3 Years for workstation and monitor



			3. Parola de configurare (prin BIOS) OS/Software Microsoft Windows 10 Professional 64-bit OEM Antivirus 12 luni Garanție Min. 36 luni, inclusiv UPS și Monitor Brand name: denumirea, modelul, numărul partidei definit (blocul de sistemă, monitorul, keyboard, mouse de același producător)		
21	30200000-1	Panou interactiv (Tabla interactivă)	IOboard China	ISO 9	
		(set) Tabla Interactiva IOboard Light 87"	Tabla Interactiva min. 87" 221 cm Interfața: USB IQ Interactive Education Platform; life free automatic online upgrade Tehnologie control IR Cell Optical Dimensiuni suprafața(mm) 1776×1334×35 Format 16:9 Acuratețe 0.05mm Rezoluție 32768×32768 Viteza de raspuns 8ms Construcție / Suprafața tablă Anti Glare Dimensiuni(mm) 1726×1247 Temperatura funcționare 0 - 40 Celsius Sisteme de operare Linux, MAC, Windows 10, Windows 7, Windows 8, Windows Vista, Windows XP Altele Mod multipagina Recunoaștere scris de mana Stylus battery free Suport aplicatii 3rd-party Funcții speciale: Inregistrare audio video Accesorii : Cablu USB 9 m, 2 markere tip stylus, 2 markere tip whiteboard, Accesorii pentru montaj perete, CD Software educational - Limba Romana, Manual de utilizare Software in lb Romana, Manual de utilizare Tabla in lb Romana; Suporta Marker tip whiteboard, orice culoare Stand mobil multimedia; Camera documente; Aadaptor wireless; Suport mobil tablă Kit de montare pe perete Incinte acustice stereo HI-FI 20W Garanție min 12 luni	Tabla Interactiva IOboard Light 87" 221 cm IOboard - tablă interactivă, diagonală 87" 221 cm, raport aspect: 4:3, (1776×1334×35), suprafața activă: 1726×1247 mm, multi-touch, writabile, soft hokeys, sistem de operare: Windows XP/2003/Vista/7/8/8.1, Linux, Android software: IQ Interactive Education Platform; life free automatic online upgrade Instalare: perete/cabinet/stand; Certificari: CE, FCC, RoHS, ISO9001, ISO14001 ISO14021; manual de utilizare in limba romana (hardware + software); Kit de montare pe perete - inclus Stand Mobil multimedia AV1000 Greutate suportata: 25 kg; dimensiune: 43x39x105 cm; inaltime ajustabila: manual (maximum 105 cm); culoare: gri; 4 roti dintre care 2 prevazute cu sistem de blocare si ajustare verticala; compatibil cu tablele interactive din seria Light, Premium si Portable; Camera Documente IOboard E3511 Resolution: 2592x1994; Frame Rate: 15 fps; Digital Zoom:100X; Operating System: Windows XP/Vista/7/8/10; Auto Focus. Interface: HDMI/VGA/USB; Power Supply: DC12V 1A; Weight: 1045g; Dimensions: 185 x 115 x 320 mm; Adaptor wireless USB Data pentru tablele interactive IOboard Conexiune wireless: 2.4 GHz; Distanța semnal: 10m; 30 canale; Funcții: Auto Scanning, Easy Pairing; compatibil cu tablă interactivă Premium 83", 94", 101" (nr maxim de touch - 6) Stand mobil pentru tablă interactivă Greutate suportata: 75 Kg; Inaltime ajustabila: Manual (maximum 50 cm); Aspect: 4:3, 16:9, 16:10; Funcție de parcare; Sistem audio pentru tablă interactivă 20W cu USB decoder IOBoard Sound Bar System 20W left/right, USB decoder, compatibil seria Premium 83", 94", 101"; include CD Software educational - Limba Romana, Manual de utilizare Software in lb Romana, Manual de utilizare Tabla in lb Romana; Suporta Marker tip whiteboard, orice culoare Stand mobil multimedia; Camera documente; Aadaptor wireless; Suport mobil tablă Kit de montare pe perete	ISO 1



22	30200000-1	Computer Standard PC (Brand Name International)	ACER/ China	Computer Brand Name Platform Smallform factor/Minitower/Tower CPU Min 2-cores Processor, min. Generația 6, Frecvența de baza min. 3,3 GHz, min 3MB cache, 14 nm, max 54W) MB Sockets compatibili cu CPU, RAM (2400MHz) min 2 slots with suport upto 32 GB, 1xDisplay port, 1xVGA, DVI, D-SUB sau HDMI port PCI Express x 16, M.2 PCIe1 2xUSB 3.1 (front), 4xUSB 2.0 sau 3.0 (rear) 2xSATA 6.0Gb/s, 1xGbit LAN, SD Card reader (front) RAM Min. 4 GB Frecvența min. 2400 MHz, compatibilă cu placa de bază HDD Min. 1,0 TB 7200 rpm SATA/II/SATA III, Cache min. 32 MB; Video card Integrated Network, Integrated, Supports 10/100/1 Gbps Sound card Integrated Power Supply Blocul de alimentare conform recomandărilor producătorilor Card reader SD Card Reader Ports 2xUSB 3.1 (front), 4xUSB 2.0 sau 3.0 (rear) 1xDisplay port, 1xVGA, DVI, D-SUB sau HDMI port PS/2 optional, Audio, Lan RJ45 Security 1. Activare/dezactivare port USB (prin BIOS) 2. Parola de pornire (prin BIOS) 3. Parola de configurare (prin BIOS) Garanție Min. 24 luni OS/Software Microsoft Windows 10 Professional 64-bit OEM Antivirus 1 years Item 1.2: Accesorii Keyboard PS/2 or USB, Eng/Rus Mouse PS/2 or USB, optical, scrolling Speakers External RMS 10W Surge protector 220V, 5 sockets, 5 m UPS UPS 650 VA Item 1.3: Monitor Brand name, same as calculator Cantitatea in set item. 1.3 Cantitatea monitorelor se va estima in dependenta de necesități Tip ecran LCD sau echivalent Formatul ecranului Wide (formatul imaginii: 16:9) Marime Min. 22 inch. Rezoluție Min. 1920x 1080 pixeli; Reproducerea culor Min. 16 milioane; Raportul de contrast Min. 1000:1 (static); Luminozitate tipică 250-300cd/m; Unghi maxim de vizibilitate orizontală/verticală 160°/160° sau 170°/160° Conectivitate Min. VGA sDisplayPort Puterea consumată 24 ~ 60 W Accesorii item 1.3.: Livrat cu cablu de conexiune și cablu de alimentare; Garanție Min. 24 luni	Desktop Acer Veriton X2660G SFF CPU: Intel® Pentium® Gold G5400, S1151, 3.7GHz (2C/4T), 4MB Cache, Intel® UHD Graphics 610, 14nm 54W RAM 4GB (1X4GB) 2666MHz DDR4 DIMM Non-ECC HDD: 3.5" HDD 1.0TB 7200rpm, 32MB, SATAIII VGA: Intel® UHD Graphics 610 Ports: 4x External USB 3.1 Type-A (2 front/2 rear), 4x External USB 2.0 Type-A (2 front/2 rear), 1x RJ-45, 1x DisplayPort 1.2, 1x HDMI 1.4, 1x UAI, 1x Line-out Slots: 1x M.2 for wireless (22x30mm), 1x M.2 for SSD SFF Form Factor with 180W OS: Windows 10 Pro 64bit English preinstalled Antivirus Bitdefender Total Security 12 luni Monitor 23.8" ACER IPS LED ET241YBI Black (4ms, 100M:1, 250cd, 1920x1080, HDMI) [UM.QE1EE.001 GARANTIA 60LUNI UPS Tuncmatic Lite II 650V/A/360W, Line-interactive, CPU, 2x Schuko grounded sockets, range 162-265 VAC, Frequency 50/60Hz Surge Protector 5 Sockets, 50m, Sven "SF-05L", BLACK flame-retardant Speakers SVEN "470" Black, 12w, USB power GARANTIA 24LUNI	ISO 90 ISO 14 HF, Ro Moldo Stand
23	30200000-1	Computer Standard PC (Brand Name International)	ACER/ China	Computer Brand Name Platform Smallform factor/Minitower/Tower CPU Min 2-cores Processor, min. Generația 6, Frecvența de baza min. 3,3 GHz, min 3MB cache, 14 nm, max 54W) MB Sockets compatibili cu CPU, RAM (2400MHz) min 2 slots with suport upto 32 GB, 1xDisplay port, 1xVGA, DVI, D-SUB sau HDMI port PCI Express x 16, M.2 PCIe1 2xUSB 3.1 (front), 4xUSB 2.0 sau 3.0 (rear) 2xSATA 6.0Gb/s, 1xGbit LAN, SD Card reader (front) RAM Min. 4 GB Frecvența min. 2400 MHz, compatibilă cu placa de bază HDD Min. 1,0 TB 7200 rpm SATA/II/SATA III, Cache min. 32 MB; Video card Integrated Network, Integrated, Supports 10/100/1 Gbps Sound card Integrated Power Supply Blocul de alimentare conform recomandărilor producătorilor Card reader SD Card Reader Ports 2xUSB 3.1 (front), 4xUSB 2.0 sau 3.0 (rear) 1xDisplay port, 1xVGA, DVI, D-SUB sau HDMI port PS/2 optional, Audio, Lan RJ45 Security 1. Activare/dezactivare port USB (prin BIOS) 2. Parola de pornire (prin BIOS) 3. Parola de configurare (prin BIOS) Garanție Min. 24 luni OS/Software Microsoft Windows 10 Professional 64-bit OEM Antivirus 1 years Item 1.2: Accesorii Keyboard PS/2 or USB, Eng/Rus Mouse PS/2 or USB, optical, scrolling Speakers External RMS 10W Surge protector 220V, 5 sockets, 5 m UPS UPS 650 VA Item 1.3: Monitor Brand name, same as calculator Cantitatea in set item. 1.3 Cantitatea monitorelor se va estima in dependenta de necesități Tip ecran LCD sau echivalent Formatul ecranului Wide (formatul imaginii: 16:9) Marime Min. 22 inch. Rezoluție Min. 1920x 1080 pixeli; Reproducerea culor Min. 16 milioane; Raportul de contrast Min. 1000:1 (static); Luminozitate tipică 250-300cd/m; Unghi maxim de vizibilitate orizontală/verticală 160°/160° sau 170°/160° Conectivitate Min. VGA sDisplayPort Puterea consumată 24 ~ 60 W Accesorii item 1.3.: Livrat cu cablu de conexiune și cablu de alimentare; Garanție Min. 24 luni	Desktop Acer Veriton X2660G SFF CPU: Intel® Core™ i3-8100, S1151, 3.6GHz (4C/4T), 6MB Cache, Intel® UHD Graphics 630, 14nm 65W/Intel Integrated Graphics RAM 16GB (2X8GB) 2666MHz DDR4 DIMM Non-ECC HDD: 3.5" HDD 1.0TB 7200rpm, 32MB, SATAIII VGA: Intel® UHD Graphics 630 ODD: 8x DVD+-RW 9.5mm Optical Disk Drive, No Wireless LAN Ports: 4x External USB 3.1 Type-A (2 front/2 rear), 4x External USB 2.0 Type-A (2 front/2 rear), 1x RJ-45, 1x DisplayPort 1.2, 1x HDMI 1.4, 1x UAI, 1x Line-out Slots: 1x M.2 for wireless (22x30mm), 1x M.2 for SSD SFF Form Factor with 180W	ISO 90 ISO 14 HF, Ro Moldo Stand



AV-Macrocom