

## Desktop1

|                                                                                                  |                                                                                                     |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| KARAKTERISTIKA MINIMALE TEKNIKE                                                                  | DESKTOP                                                                                             |
| Pikët min. përprocesorinsipas:<br>cpu <a href="http://benchmark.net">benchmark.net</a> Min Proc. | 2700                                                                                                |
| <i>Forma</i>                                                                                     | Small Form Factor                                                                                   |
| <i>RAM:</i>                                                                                      | 4 GB DDR3-1333 non ECC                                                                              |
| <i>Madhësia e Hard Diskut "HDD Size"</i>                                                         | 250GB I ndare ne dyparticione ( sistemi ne 120 GB)                                                  |
| <i>Hard disk drive Speed:</i>                                                                    | 7,200rpm SATA 3.0Gb/s                                                                               |
| <i>Disk subsystem controller:</i>                                                                | SMART III Serial ATA 3.0 GB/s, minimum 4 Serial ATA interfaces and support of RAID 1                |
| <i>Karta Grafike "Graphics":</i>                                                                 | Minimum 256 MB video memory , DVI                                                                   |
| <i>Media Device:</i>                                                                             | 16X DVD+/-RW Drive                                                                                  |
| KOMUNIKIMI & MENAXHIMI                                                                           |                                                                                                     |
| <i>Keyboard:</i>                                                                                 | Standard Keyboard English                                                                           |
| <i>Mouse:</i>                                                                                    | Minimum 2 Button scroll Optical                                                                     |
| <i>Porta e Komunikimit "Ports":</i>                                                              | Rear (2) USB 2.0, (2) USB 3.0, (1) RJ-45, audio in/out, Front : (2) USB, headphone and microphone   |
| <i>Slots:</i>                                                                                    | Minimum (2) PCI/PCIe x1 slots and (1) PCIe x 16slots                                                |
| <i>Networking:</i>                                                                               | 10/100/1000 LAN Integrated Gigabit Ethernet card                                                    |
| <i>Multimedia:</i>                                                                               | Sound Card                                                                                          |
| <i>Speakers:</i>                                                                                 | Internal or Built-in Monitor                                                                        |
| <i>Siguria "Security Management":</i>                                                            | Embedded Security TPM                                                                               |
| <i>Sistemi Operimit "Preinstalled Licensed O. S.":</i>                                           | OEM Windows 7 Professional Edition                                                                  |
| <i>Recover CD :</i>                                                                              | Recovery CD or Recovery Partition                                                                   |
| <i>Monitori (e njejtamarke me kompjuterin):</i>                                                  | 19" LCD,LED or equivalent Flat Panel Display 1280 x 1024 resolution, DVI support,Energy Star,TCO-03 |
| <i>Periudha e mbulimitëgarancisë</i>                                                             | 1 years                                                                                             |

## Desktop 2

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|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| KARAKTERISTIKA MINIMALE TEKNIKE                                                                  | DESKTOP                                                                                             |
| Pikët min. përprocesorinsipas:<br>cpu <a href="http://benchmark.net">benchmark.net</a> Min Proc. | 5400                                                                                                |
| <i>Forma</i>                                                                                     | Small Form Factor                                                                                   |
| <i>RAM:</i>                                                                                      | 4 GB DDR3-1333 non ECC                                                                              |
| <i>Madhësia e Hard Diskut "HDD Size"</i>                                                         | 500GB I ndare ne dyparticione ( sistemi ne 200 GB)                                                  |
| <i>Shpejtesia "Hard disk drive Speed":</i>                                                       | 7,200rpm SATA 3.0Gb/s                                                                               |
| <i>Disk subsystem controller:</i>                                                                | SMART III Serial ATA 3.0 GB/s, minimum 4 Serial ATA interfaces and support of RAID 1                |
| <i>Karta Grafike "Graphics":</i>                                                                 | ≥1 GB, DVI                                                                                          |
| <i>Media Device:</i>                                                                             | 16X DVD+/-RW Drive                                                                                  |
| KOMUNIKIMI & MENAXHIMI                                                                           |                                                                                                     |
| <i>Keyboard:</i>                                                                                 | Standard Keyboard English                                                                           |
| <i>Mouse:</i>                                                                                    | Minimum 2 Button scroll Optical                                                                     |
| <i>Porta e Komunikimit "Ports":</i>                                                              | Rear (4) USB 2.0, (2) USB 3.0, (1) RJ-45, audio in/out, Front : (4) USB, headphone and microphone   |
| <i>Slots:</i>                                                                                    | Minimum (2) PCI/PCIe x1 slots and (1) PCIe x 16slots                                                |
| <i>Networking:</i>                                                                               | 10/100/1000 LAN Integrated Gigabit Ethernet card                                                    |
| <i>Multimedia:</i>                                                                               | Sound Card                                                                                          |
| <i>Speakers:</i>                                                                                 | Internal or Built-in Monitor                                                                        |
| <i>Siguria "Security Management":</i>                                                            | Embedded Security TPM                                                                               |
| <i>Sistemi i Operimit "Preinstalled Licensed O. S.":</i>                                         | OEM Windows 7 Professional Edition                                                                  |
| <i>Recover CD :</i>                                                                              | Recovery CD or Recovery Partition                                                                   |
| <i>Monitori (e njejtamarke me kompjuterin):</i>                                                  | 19" LCD,LED or equivalent Flat Panel Display 1280 x 1024 resolution, DVI support,Energy Star,TCO-03 |
| <i>Periudha e mbulimit të garancisë</i>                                                          | 1 years                                                                                             |

## Workstation 1

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|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>KARAKTERISTIKA MINIMALE<br/>TEKNIKE</b>                                                               |                                                                                                                            |
| <b>Pikët min. përprocesorinsipas:<br/>cpu</b> <a href="http://benchmark.net">benchmark.net</a> Min Proc. | 7000                                                                                                                       |
| <b>“RAM”:</b>                                                                                            | min 2 x DDR3 DIMM Slot, deri ne 16 GB DDR3,<br>pajisur me 8 GB DDR3, nonEEC                                                |
| <b>Madhësia e Hard Diskut “HDD Size”</b>                                                                 | 1 x SSD 240GB SATA 3 dhe 1 x 1TB SATA 3 128M 7200RPM<br>Enterprise                                                         |
| <b>Shpejtësia “Hard disk drive Speed”:</b>                                                               | Serial ATA 6.0 Gb/s                                                                                                        |
| <b>Karta Grafike “Graphics”:</b>                                                                         | Dedicated HD graphics card x16 PCI-E, Minimum 2 GB<br>Memory, min. (2) porta (VGA/DVI/HDMI/DP)                             |
| <b>“Media Device”:</b>                                                                                   | DVD+/-RW                                                                                                                   |
| <b>“Slots”:</b>                                                                                          | Minimum (3) PCI/PCI-E, ngatecilat (1) - x16 PCI-E.                                                                         |
| <b>KOMUNIKIMI &amp; MENAXHIMI</b>                                                                        |                                                                                                                            |
| <b>Porta e Komunikimit “Ports”:</b>                                                                      | Min. (4) USB ngatecilat min (2) USB Para dhe min (2) pas, (1)<br>RJ-45, (1) audio in/out, (1) mic. and headphone, (1) VGA. |
| <b>“Networking”:</b>                                                                                     | (1) 10/100/1000 LAN Integrated Gigabit Ethernet Port.                                                                      |
| <b>“Sound”:</b>                                                                                          | Integrated Sound Card                                                                                                      |
| <b>“Speakers”:</b>                                                                                       | Internal or Built-in Monitor                                                                                               |
| <b>Siguria “Security Management”:</b>                                                                    | Embedded Security TPM                                                                                                      |
| <b>Sistemi i Operimit “Preinstalled<br/>Licensed O. S.”:</b>                                             | OEM Windows 7, 8 ose më lart 64-bit Professional I instaluar ne<br>HDD                                                     |
| <b>“Keyboard”:</b>                                                                                       | Standart Keyboard QWERTY                                                                                                   |
| <b>“Mouse”:</b>                                                                                          | Minimum 3 Button scroll Optical                                                                                            |
| <b>Ushqimi “Power Supply”:</b>                                                                           | 220 V AC, 50 Hz                                                                                                            |
| <b>AKSESORËT</b>                                                                                         |                                                                                                                            |
| <b>Kabëll “Power Cord”:</b>                                                                              | European                                                                                                                   |
| <b>Recover CD :</b>                                                                                      | Recover CD/DVD ose Recover Partition                                                                                       |
| <b>MONITORI</b>                                                                                          |                                                                                                                            |
| <b>Tipi “Type”:</b>                                                                                      | LCD OSE LED itënjëjtës markë me kompjuterin                                                                                |
| <b>Madhësia “Size”:</b>                                                                                  | 21”                                                                                                                        |
| <b>Rezolucioni “Native Resolution”:</b>                                                                  | 1920 x 1080 at 60 Hz                                                                                                       |

|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Raportii Kontrastit "Constrast Ratio Static": | 1000:1                                          |
| "Display Port":                               | (1) VGA ose DVI dhe (1) prejportave DVI/HDMI/DP |
| Koha e Rifreskimit "Response Time":           | 5 ms                                            |
| Kursimi i Energjisë "Energy                   | Energy Star                                     |
| Ushqimi "Power Supply":                       | 220 V AC, 50 Hz                                 |
| Periudha e mbulimit të garancisë              | 3 vjet                                          |

## Workstation 2

|                                                                                         |                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KARAKTERISTIKA MINIMALE TEKNIKE                                                         |                                                                                                                                                                 |
| Pikët min. për procesorin sipas: <a href="http://cpubenchmark.net">cpubenchmark.net</a> | Jo me pak se 9500                                                                                                                                               |
| Chipset                                                                                 | Intel® Gen 6 Core™ i7 or ekuivalent , E5-2600/1600 v3,v4, jo me pak se 160W TDP, jo me pak se 20C, turbo 4GHz, 4C                                               |
| "RAM":                                                                                  | suport per 128GB memorje DDR4 Non-ECC UDIMM ne 8 slote, pajisur me 32 GB (4 x 8) RAM DDR4 non ECC UDIMM 2400MHz,                                                |
| Madhësia e Hard Diskut "HDD Size"                                                       | 1 x SSD 240GB SATA 3 dhe 2 x 4TB SATA3 3.5" 7200RPM HDD 128M 512E Enterprise                                                                                    |
| Shpejtësia "Hard disk drive Speed":                                                     | SATA3 (6Gbps), jo me pak se 8 porta SATA3, RAID 0, 1, 5, 10                                                                                                     |
| Karta Grafike "Graphics":                                                               | 1660 CUDA Cores, Memorje 4GB 256-Bit GDDR5, System Interface PCI Express 3.0 x16, 4 x konektore DP, me stereo, 1 x DVI-D, deri 120W                             |
| "Media Device":                                                                         | 3 x Drive periferikash 5.25", pajisur me DVD R/W 5.25"                                                                                                          |
| "Slots":                                                                                | >5 x PCI-E 2.0/3.0 tekombinuara                                                                                                                                 |
| KOMUNIKIMI & MENAXHIMI                                                                  |                                                                                                                                                                 |
| Porta e Komunikimit "Ports":                                                            | >10 porta 3.0, suport per update ne USB 3.1, (1) RJ-45, (1) audio in/out, (1) mic. and headphone, (2) VGA, DVI, Porta PS2 kbd/mouse Porta COM ports, TPM module |
| "Networking":                                                                           | (1) 10/100/1000 LAN Integrated Gigabit Ethernet Port.                                                                                                           |
| "Sound":                                                                                | Integrated Sound Card                                                                                                                                           |
| "Speakers":                                                                             | Me Multimedia Speakers,<br>Me Kartezeri 7.1 channel<br>dual Gb port controller                                                                                  |
| Siguria "Security Management":                                                          | Embedded Security TPM                                                                                                                                           |
| Sistemi i Operimit "Preinstalled Licensed O. S.":                                       | OEM Windows 7, 8 ose më lart 64-bit Professional I instaluar ne SSD                                                                                             |



BASHKIA  
TIRANË

|                                              |                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Ventilatore                                  | 3 cope                                                                                                           |
| “Keyboard”:                                  | Standart Keyboard QWERTY                                                                                         |
| “Mouse”:                                     | Minimum 3 Button scroll Optical                                                                                  |
| Ushqimi “Power Supply”:                      | Active power, Jo me pak se 1200W High Efficiency 80 plus Platinum, AC Voltage ne hyrje 110-240 V, 50-60 Hz, 12A. |
| Certifikimedheperputhshmeri me standarde:    | CE, RoHS                                                                                                         |
| AKSESORËT                                    |                                                                                                                  |
| Kabëll “Power Cord”:                         | European                                                                                                         |
| Recover CD :                                 | Recover CD/DVD ose Recover Partition                                                                             |
| MONITORE 2 cope                              |                                                                                                                  |
| Tipi “Type”:                                 | LCD OSE LED itënjëjtësmarkë me kompjuterin                                                                       |
| Madhësia “Size”:                             | Wide 24",                                                                                                        |
| Rezolucioni “Native Resolution”:             | 1920x1080 IPS 60Hz                                                                                               |
| RaportiiKontrastit “Constrast Ratio Static”: | 1000:1                                                                                                           |
| “Display Port”:                              | (1) VGA ose DVI dhe (1) prejportave DVI/HDMI/DP                                                                  |
| Koha e Rifreskimit “Response Time”:          | 5 ms                                                                                                             |
| Kursimienergjisë “Energy                     | Energy Star, CE                                                                                                  |
| Ushqimi “Power Supply”:                      | 220 V AC, 50 Hz                                                                                                  |
| Periudha e mbulimittëgarancisë               | 3 vjet                                                                                                           |

### Printer A4

|                                                |                          |
|------------------------------------------------|--------------------------|
| KARAKTERISTIKA MINIMALE TEKNIKE                |                          |
| Shpejtësia e printimit “ Print Speed”:         | ≥30 ppm                  |
| Mirëmbajtjamujore “Monthly duty cycle”:        | 20 000 Faqe              |
| Teknologjia “Technology”:                      | Laser B&W                |
| Razolucioniiprintimit minimal “Print Quality”: | 1200x600 dpi             |
| Kapacitetinëhyrje “Input Capacity”:            | 250 Fletë                |
| Peshaspecifike e letrës “Media sizes”:         | 60-120g/m <sup>2</sup>   |
| Formatiiletrës “Media format”:                 | A4/A5/ Envelope          |
| Aftesia e printimit Duplex:                    | Po                       |
| Memorja “Memory”:                              | ≥128 MB                  |
| “Toner”:                                       | Shoqëruar me Starter Kit |
| KOMUNIKIMI & MENAXHIMI                         |                          |
| Porta e komunikimit “Interface”:               | High Speed USB 2.0       |
| Portëkomunikimi “Ethernet”:                    | Po                       |
| AKSESORËT                                      |                          |

|                                            |          |
|--------------------------------------------|----------|
| Kabëll "Power Cord":                       | European |
| Software/Drivers CD:                       | Po       |
| Kabëll USB:                                | Po       |
| <b>GARANCIA</b>                            |          |
| Periudha e mbulimittëgarancisë "Warranty": | 2 vjet   |

### Fotokopje

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| <b>KARAKTERISTIKA MINIMALE TEKNIKE</b>            |                          |
| "Model":                                          | copier/printer           |
| Shpejtësia "Copy/Print speed for A4":             | ≥20ppm                   |
| "Monthly duty cycle":                             | 5 000 Faqe               |
| Teknologjia "Technology":                         | Laser B&W                |
| Zvogëlim/Zmadhim "Reduction/Enlargement":         | 25%-200%                 |
| Vendosja e dokumentit "Document Feeder":          | Nukspecifikohet          |
| Sirtarëtpërletrën "Paper trays":                  | 1                        |
| Kapacitetinëhyrje "Input capacity min":           | 250 Fletë                |
| Kapacitetinëdalje "Output capacity min standard": | 100 Fletë                |
| Kopim/printimnëtëdyfaqet "Duplex copying/print.": | Nukspecifikohet          |
| Formatiiletrës "Media sizes":                     | A4                       |
| Memorja "Memory":                                 | ≥128 MB                  |
| "Hard disk":                                      | Nukspecifikohet          |
| Shpejtësia e skanimit "Scan speed":               | Nukspecifikohet          |
| Rezolucioni I skanimit "Scan resolution":         | Nukspecifikohet          |
| Formatiiskanimitmaksimal "Maximum scan size":     | Nukspecifikohet          |
| "Toner":                                          | Shoqëruar me Starter Kit |
| <b>KOMUNIKIMI &amp; MENAXHIMI</b>                 |                          |
| Porta e komunikimit "Interface":                  | High Speed USB 2.0       |
| Ethernet:                                         | <b>Po</b>                |
| <b>AKSESORËT</b>                                  |                          |
| Kabëll "Power Cord":                              | European                 |
| Software/Drivers CD :                             | Po                       |
| Kabëll USB:                                       | Po                       |
| <b>GARANCIA</b>                                   |                          |
| Periudha e mbulimittëgarancisë "Warranty":        | 1 vitose 15 000 Kopje*   |

## Laptop

| KARAKTERISTIKA MINIMALE TEKNIKE                                                         |                                                                                                                        |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Pikët min. përprocessorinsipas: <a href="http://cpubenchmark.net">cpubenchmark.net</a>  | 4700                                                                                                                   |
| Min Proc. Rating according to: <a href="http://cpubenchmark.net">cpubenchmark.net</a> : |                                                                                                                        |
| “Chipset”:                                                                              | Intel oseEkuivalent                                                                                                    |
| “RAM”:                                                                                  | 16 GB DDR3 1600 MHz                                                                                                    |
| Madhësia e Hard Diskut “HDD Size”:                                                      | 512 GB SSD                                                                                                             |
| “Graphics”:                                                                             | HD Graphics 520                                                                                                        |
| “Media Device”:                                                                         | DVD+/-RW DL                                                                                                            |
| “Display”:                                                                              | 14" FHD LED 1920 x 1080 me touch                                                                                       |
| Bateria “Battery”:                                                                      | 4-6-cell battery                                                                                                       |
| KOMUNIKIMI & MENAXHIMI                                                                  |                                                                                                                        |
| Porta e komunikimit “Ports”:                                                            | (3)USB 3.0 (1) USB 2.0<br>DisplayPort ose HDMI Out<br>Integrated Digital Mic.<br>Integrated Web Camera Jack<br>SD card |
| “Networking”:                                                                           | 10/100/1000 LAN (RJ-45)<br>Wireless 802.11 b/g/n /<br>ac Bluetooth                                                     |
| “Sound”:                                                                                | High Definition Audio2.0                                                                                               |
| SistemiOperimit “Preinstalled Licensed O. S.”:                                          | OEM Windows 7, 8 osemëlar 64-bit Professional                                                                          |
| “Keyboard”:                                                                             | QWERTY                                                                                                                 |
| “Pointing Device”:                                                                      | Touch pad &usb mouse                                                                                                   |
| Siguria “Security”                                                                      | Embedded Security TPM                                                                                                  |
| AKSESORËT                                                                               |                                                                                                                        |
| Kabëll “Power Cord”:                                                                    | European                                                                                                               |
| Ushqyesi “Recharger”:                                                                   | Po                                                                                                                     |
| Çantë:                                                                                  | Po, ngaprodhuesi. E përshtatshme për Laptop dheAksesorët e tjerë.                                                      |
| “Recover” dhe “Drivers”CD/DVD:                                                          | “Recover”, “Drivers” CD/DVD ose Rec. Partition                                                                         |
| GARANCIA                                                                                |                                                                                                                        |
| Periudha e mbulimittëgarancisë “Warranty”:                                              | 3 vjet                                                                                                                 |



## PC

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|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>KARAKTERISTIKA MINIMALE TEKNIKE</b>                                                                   | DESKTOP                                                                                             |
| <b>Pikët min. përprocesorinsipas:<br/>cpu</b> <a href="http://benchmark.net">benchmark.net</a> Min Proc. | 5400                                                                                                |
| <b>Forma</b>                                                                                             | Small Form Factor                                                                                   |
| <b>RAM:</b>                                                                                              | 4 GB DDR3-1333 non ECC                                                                              |
| <b>Madhësia e Hard Diskut “HDD Size”</b>                                                                 | 500GB I ndare ne dyparticione ( sistemi ne 200 GB)                                                  |
| <b>Shpejtësia “Hard disk drive Speed”:</b>                                                               | 7,200rpm SATA 3.0Gb/s                                                                               |
| <b>Disk subsystem controller:</b>                                                                        | SMART III Serial ATA 3.0 GB/s, minimum 4 Serial ATA interfaces and support of RAID 1                |
| <b>Karta Grafike “Graphics”:</b>                                                                         | ≥1 GB, DVI                                                                                          |
| <b>Media Device:</b>                                                                                     | 16X DVD+/-RW Drive                                                                                  |
| <b>KOMUNIKIMI &amp; MENAXHIMI</b>                                                                        |                                                                                                     |
| <b>Keyboard:</b>                                                                                         | Standard Keyboard English                                                                           |
| <b>Mouse:</b>                                                                                            | Minimum 2 Button scroll Optical                                                                     |
| <b>Porta e Komunikimit “Ports”:</b>                                                                      | Rear (4) USB 2.0, (2) USB 3.0, (1) RJ-45, audio in/out, Front : (4) USB, headphone and microphone   |
| <b>Slots:</b>                                                                                            | Minimum (2) PCI/PCIe x1 slots and (1) PCIe x 16slots                                                |
| <b>Networking:</b>                                                                                       | 10/100/1000 LAN Integrated Gigabit Ethernet card                                                    |
| <b>Multimedia:</b>                                                                                       | Sound Card                                                                                          |
| <b>Speakers:</b>                                                                                         | Internal or Built-in Monitor                                                                        |
| <b>Siguria “Security Management”:</b>                                                                    | Embedded Security TPM                                                                               |
| <b>Sistemi i Operimit “Preinstalled Licensed O. S.”:</b>                                                 | OEM Windows 7 Professional Edition                                                                  |
| <b>Recover CD :</b>                                                                                      | Recovery CD or Recovery Partition                                                                   |
| <b>Monitori (e njejtamarke me kompjuterin):</b>                                                          | 19" LCD,LED or equivalent Flat Panel Display 1280 x 1024 resolution, DVI support,Energy Star,TCO-03 |
| <b>Periudha e mbulimit të garancisë</b>                                                                  | Warranty 1 years                                                                                    |



## Printer

|                                                  |                          |
|--------------------------------------------------|--------------------------|
| <b>KARAKTERISTIKA MINIMALE TEKNIKE</b>           |                          |
| Shpejtësia e printimit "Print Speed":            | ≥30 ppm                  |
| Mirëmbajtjamujore "Monthly duty cycle":          | 20 000 Faqe              |
| Teknologjia "Technology":                        | Laser B&W                |
| Razolucioni i printimit minimal "Print Quality": | 1200x600 dpi             |
| Kapacitetin e hyrje "Input Capacity":            | 250 Fletë                |
| Peshaspecifike e letrës "Media sizes":           | 60-120g/m <sup>2</sup>   |
| Formati i letrës "Media format":                 | A4/A5/ Envelope          |
| Aftësia e printimit Duplex:                      | Po                       |
| Memorja "Memory":                                | ≥128 MB                  |
| "Toner":                                         | Shoqëruar me Starter Kit |
| <b>KOMUNIKIMI &amp; MENAXHIMI</b>                |                          |
| Porta e komunikimit "Interface":                 | High Speed USB 2.0       |
| Portë komunikimi "Ethernet":                     | Po                       |
| <b>AKSESORËT</b>                                 |                          |
| Kabëll "Power Cord":                             | European                 |
| Software/Drivers CD:                             | Po                       |
| Kabëll USB:                                      | Po                       |
| <b>GARANCIA</b>                                  |                          |
| Periudha e mbulimit të garancisë "Warranty":     | 2 vjet                   |