

Shtojca 9

[Shtojcë për t'u plotësuar nga Autoriteti Kontraktor]

SPECIFIKIMET TEKNIKE

Skicimet, parametrat teknik etj:

Specifikimi i Materialeve:

Specifikime teknike per paisje **Hardware, LAN, VOIP, Kamera**

1- Rrjeti Informatik Lan

| | |
|-----|--|
| 1. | Rack 26Unit 600x1000mm (Shiko Specifikimet teknike) |
| 2. | Rack 9Unit 600x600mm (Shiko Specifikimet teknike) |
| 3. | Patchpanel FTP me 24 porta cat.6 shielded 1U |
| 4. | Patchguida 1U |
| 5. | Ventilator me termostat 4x per Rack |
| 6. | Switch me 24 Porta Menaxhueshem Gigabit 24XRJ45 PSU Metal + 2 SFP Port |
| 7. | Power Bar per Rack me mbrojtje 6-7 shuko 4000W |
| 8. | Rack Shelf (Tabaka Racku) H.1000 Rack |
| 9. | Rack Shelf (Tabaka Racku) H.600 Rack |
| 10. | Set Vida Racku + Aksesore Lidhes |
| 11. | Patchcorda rrjeti FTP 0,5m cat.6 |
| 12. | Kabell rrjeti data FTP shielded Cat.6 |
| 13. | Priza rrjeti FTP cat.6 e kompletuar me kuti, suport, kapak |
| 14. | Kanaline plastike 100x60mm e aksesorueshme me aksesore |
| 15. | Kanaline plastike 60x40mm e aksesorueshme me aksesore |
| 16. | Kanaline plastike 30x25mm e aksesorueshme me aksesore |
| 17. | Patchcorda rrjeti FTP 1m cat.6 |
| 18. | Patchcorda rrjeti FTP 3m cat.6 |

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|----|--------------------------------|
| 19 | Patchcorda rrjeti FTP 5m cat.6 |
| 20 | Router boardband me VPN suport |
| 21 | Router Wireless dualband AP |
| 22 | Router Gigabit me VPN support |

1.1 Rack Tipi 1 (Bashkia Klos)

| | |
|---|--|
| Lartesia /Tipi | 26U |
| Gjeresia | 19" (600mm) |
| Thellesia | >=1000 mm |
| Dera e perparme | E perforuar, me doreze dhe me çeles; krahu i hapjes se deres te jete i nderrueshem nga perdoruesi; dera e perparme dhe dera e pasme te mund te nderrojne vendet me njera tjetren; |
| Dyert e pasme Panelet anesore | Te perforuara; Te çmontueshme/te levizshme (half height quick release side panels) dhe me çeles |
| Kapaciteti per ngarkese statike | >=1000kg |
| Aksesi per kabllot Vertical mounting rails | Ne pjesen e sipërme dhe ne pjesen e poshtme (with preinstalled brushes) 4 PCS, each of them shall be easily adjustable to allow different mounting depths. Each vertical mounting rail shall be marked on both sides with lines showing the top and bottom of each U and the number U space next to the middle hole. |
| Grounding | All cabinet components such as doors, side panels, roofs, etc. shall be bonded directly to the frame. Grounding points shall be provided on the cabinet's frame to externally bond each unit to the building ground. |
| Ventilation | The unit shall have ventilated front and rear doors to provide adequate airflow required by the major server manufacturers; The unit shall provide the means to mount optional cooling accessories for high density applications. An optional tool less blanking panel kit to prevent the recirculation of hot exhaust air |
| Environmental | RoHS compliant. The cabinet shall both protect the user from mechanical hazards and generally meet the requirements (stability, mechanical strength, aperture sizes, etc.) as defined in IEC 60950. |
| Security | The unit shall include a front door lock, rear door lock and side panel locks. All locks shall be configured to use the same key. |

Stabilization

The unit shall have four (4) adjustable leveling feet to help provide a stable base in the event of an uneven floor surface and to prevent rolling or wheels

1.2 Rack Tipi 2 (Njesite Administrative)

| | |
|-----------------|--|
| Lartesia /Tipi | 9U |
| Gjeresia | 19" (600mm) |
| Thellesia | >=500-600 mm |
| Dera e perparme | Me xham, me çeles |
| Dyert e pasme | Te mbylluara |
| Panelet anesore | Te çmontueshme/te levizshme |
| Grounding | All cabinet components such as doors, side panels, roofs, etc. shall be bonded directly to the frame. Grounding points shall be provided on the cabinet's frame to externally bond each unit to the building ground. |
| Environmental | RoHS compliant. The cabinet shall both protect the user from mechanical hazards and generally meet the requirements (stability, mechanical strength, aperture sizes, etc.) as defined in IEC 60950. |

2- Kompjutera Desktop (Bashkia Klos + Njesite Administrative)

KARAKTERISTIKA MINIMALE TEKNIKE

| | |
|--|---|
| Pikët min. për procesorin sipas: cpu5400 benchmark.net Min Proc. Rating according to: | |
| "RAM": | 4 GB, min. DDR3 1600 MHz Non-ECC |
| Madhësia e Hard Diskut "HDD Size": | 500 GB |
| Shpejtësia e Hard Diskut "Media sizes": | 7200 Rpm SATA 6.0Gb/s |
| "Disk subsystem controller": | Serial ATA 6.0 Gb/s |
| Karta Grafike "Graphics": | ≥ 1 GB |
| "Media Device": | DVD+/-RW |
| "Slots": | Minimum (3) PCI/PCI-E, nga te cilat (1) x16 PCI-E. |
| KOMUNIKIMI & MENAXHIMI | |
| Porta e komunikimit "Ports": | Min. (8) USB nga te cilat min (2) USB Para dhe min (2) USB 3.0, (1) RJ-45, (1) audio in/out, (1) mic. and headphone, (1) VGA. |
| "Networking": | (1) 10/100/1000 LAN Integrated Gigabit Ethernet Port |
| "Sound": | Integrated Sound Card |
| "Speakers": | Internal or Built-in Monitor |
| Siguria "Security Management": | Embedded Security TPM |
| Sistemi i Operimit "Preinstalled Licensed O. S.": | OEM Windows 7, 8 ose më lart 64-bit Professional |
| "Keyboard": | Standart Keyboard QWERTY |

| | |
|---|---|
| “Mouse”: | Minimum 2 Button scroll Optical |
| Ushqimi “Power Supply”: | 220 V AC, 50 Hz |
| AKSESORËT | |
| Kabëll “Power Cord”: | European |
| Recover CD : | Recover CD/DVD ose Recover Partition |
| MONITORI | |
| Tipi “Type”: | LCD OSE LED i të njëjtës markë me kompjuterin |
| Madhësia “Size” : | 23” |
| Rezolucioni “Native Resolution”: | 1920 x 1080 at 60 Hz |
| Raporti I kontratit “Constrast Ratio Static”: | 1000:1 |
| “Display Port”: | (1) VGA dhe të paktën (1) prej portave |
| Koha e rifreskimit “Response Time”: | 5 ms |
| Kursimi i energjisë “Energy Efficency”: | Energy Star |
| Ushqimi “Power Supply”: | 220V AC, 50 Hz |
| GARANCIA | 2 vjet |
| Periudha e mbulimit të garancisë “Warranty”: | 3 vjet |

3 - Printer All in ONE (Bashkia Klos + Njesite Administrative)

| KARAKTERISTIKA MINIMALE TEKNIKE | |
|--|------------------------------------|
| "Model": | print/scan/copy |
| Shpejtësia e printimit “Print Speed”: | ≥40 ppm |
| Mirëmbajtja mujore “Monthly duty cycle”: | 50000 |
| Teknologjia “Technology”: | Laser B&W |
| Razolucioni i printimit minimal “Print Quality”: | 1200 x 1200 dpi |
| Kapaciteti në hyrje “Input Capacity”: | 300 Fletë |
| Kapaciteti në dalje “Output Capacity”: | 150 Fletë |
| Formati i letrës “Media format”: | A4 |
| Memorja “Memory”: | ≥256 MB |
| Rezolucioni minimal optikal i skanimit "Min. optical scan resolution": | 1200 x 600 dpi black |
| Sistemi i Operimit i suportuar "OS supported" | Windows 7 e lart (32 bit & 64 bit) |
| “Toner”: | Shoqëruar me Starter Kit |
| KOMUNIKIMI & MENAXHIMI | |
| Porta e komunikimit “Interface”: | High Speed USB 2.0 |
| Portë komunikimi “Ethernet”: | Po |
| Duplex | Po |
| AKSESORËT | |
| Kabëll “Power Cord”: | European |

| | |
|--|-------|
| Software/Drivers CD: | Po |
| Kabëll USB: | Po |
| GARANCIA | |
| Periudha e mbulimit të garancisë "Warranty": | 1 vit |

4 - UPS 2000VA per PC (Bashkia Klos + Njesite Administrative)

| | |
|--|---|
| Model | Tower, me aksesoret e montimit te perfshira |
| Tipi i UPS-se | UPS-te duhet te jete ON LINE me konvertim te dyfishte |
| Bypass | UPS-te duhet te jene me Bypass te brendshem (static): automatik dhe manual |
| Baterite | Baterite duhet te jene te nderrueshme nga perdoruesi. |
| Ngarkuesi i baterive | UPS-te duhet te suportojne karikues shtese baterish dhe mundesi per te lidhur bateri shtese |
| Ndezja e UPS_se | Edhe pa prezencen e tensionit ne hyrje (Cold Start) |
| Fuqia | >= 2000VA |
| Tensioni nominal ne hyrje: | 220/230/240VAC |
| Faktori i fuqise ne hyrje: | >=0.95 |
| Diapazoni i lejuar i tensionit ne hyrje: | 160 -300 VAC |
| Frekuenca ne hyrje | 50HZ; 45 -55HZ |
| Tensioni ne dalje: | Sinusoidal i paster, 220/230/240VAC +/- 1% |
| Frekuenca ne dalje: | 50HZ +/- 1% |
| Shqetesimi i harmonikave | =< 2% |
| Koha e transferimit | = 0ms |
| Koha e punes ne bateri: | >= 10 minuta me ngarkese te plote |
| LCD/LED display | per treguesit e hyrje daljes dhe alarmeve perkatese |
| Karte komunikimi | RS 232 dhe software perkates |
| Portat e daljes | >=3 IEC320 C13 |
| SNMP | opsionale |
| Garancia | 1 vit 2 |

1. Router boardband me VPN suport (Bashkia Klos + Njesi Administrative)

| | |
|----------------------------|-------------------------|
| Frekuenca Nominale deri ne | 1Ghz |
| Pjese Per SFP | Po |
| CPU Core Count | Multi |
| RAM | Deri ne 1GB |
| Porta Lan | Deri ne 8 porta |
| Porta USB | 1 |
| PoE out/in | Po |
| Sistemi Operativ | RouterOS I menaxhueshem |
| Temperatura e Punes | -35C to +65C |
| Niveli Licensimit | 6 |

| | |
|-----------------|------------------|
| Porta SFP | 1 |
| Tipi Slotit USB | microUSB type AB |
| Porte Seriale | RJ45, RS232 |
| Garancia | 1 vit |

5.1 Router Wireless dualband AP (Bashkia Klos + Njesi Administrative)

| | |
|----------------------------|-------------------------|
| Frekuenca Nominale deri ne | 600-650Mhz |
| Pjese Per SFP | Jo |
| CPU Core Count | 1 |
| RAM | Deri ne 64Mb |
| Porta Lan | Deri ne 5 porta |
| Porta USB | 1 |
| PoE out/in | Po |
| Sistemi Operativ | RouterOS I menaxhueshem |
| Temperatura e Punes | -35C to +65C |
| Niveli Licensimit | 4 |
| Tipi Slotit USB | USB Type A |
| Wireless standarts | 802.11a/n/ac/b/g |
| Garancia | 1 vit |

5.2 Router boardband me VPN suport (Lidhja e Transmetimit te te dhenave me Zyrat)

| | |
|----------------------------|-------------------------|
| Frekuenca Nominale deri ne | 1.2Ghz |
| Pjese Per SFP | Po |
| CPU Core Count | Multi |
| RAM | Deri ne 4GB |
| Porta Lan | Deri ne 8-12 porta |
| Porta USB | 1 |
| PoE out/in | Po |
| Sistemi Operativ | RouterOS I menaxhueshem |
| Temperatura e Punes | -35C to +65C |
| Niveli Licensimit | 6 |
| Porta SFP | 1-4 |
| Tipi Slotit USB | microUSB type AB |
| Porte Seriale | RJ45, RS232 |
| Garancia | 1 vit |

2. Inverter (Lidhja e Transmetimit te te dhenave me Zyrat) per Serverin Tipi 2

| | |
|---------------------------|---------------------------------|
| Model: | Tower |
| Kompatibiliteti: | 12V DC / 120V AC |
| Frekuenca ne dalje: | 60 Hz |
| Fuqia ne dalje | 750W (vazhdueshme) 1500W (peak) |
| Tensioni nominal ne dalje | 120V |

| | |
|---------------------------------|----------------------------|
| Prizat ne dalje | 2 Dalje AC |
| Baterite | Te thata ose me xhel 100AH |
| Sistemi Tensionit Te Bativerive | 12V DC |
| Garancia | 1 vit |

3. Server – Tipi 1 Per Infrastrukturen e Te dhenave

| | |
|--------------------|--|
| Pike Procesori | : 9500 |
| Berthama Procesori | : 6 |
| Tipi Struktures | : Server Montim Ne Rack ose Tower |
| Kasa | : Deri ne 4 Hard Drive (2.5" or 3.5") |
| RAM | :16GB DDR4 UDIMM |
| HDD: | : 2x1TB 7.2k RPM SATA 6Gbps Entry 3.5in Cabled Hard Drive RAID 1 |
| Configuration | |
| RAID Controller: | : Hardware RAID |
| Garancia: | : 2 Vjet |

8- Server – Tipi 2 Per Komunikimin me Zyrat

| | |
|--------------------|--|
| Pike Procesori | : 12000 |
| Berthama Procesori | : 8 |
| Tipi Struktures | : Server Montim Ne Rack ose Tower |
| Kasa | : Deri ne 8 Hard Drive (2.5" or 3.5") |
| RAM | :32GB DDR4 UDIMM |
| HDD: | : 2x1TB 7.2k RPM SATA 6Gbps Entry 3.5in Cabled Hard Drive RAID 1 |
| Configuration | |
| RAID Controller: | : Hardware RAID |
| Garancia: | : 2 Vjet |

9. Telefonia IP

9.1. Centrali Voip duhet te kete:

- 2 Porta FXS
- 4 Porta FXO ports
- 2 Porta NIC Dual Gigabit Ethernet
- Porta Periferike USB, SD
- Protokolle G.711 A-law/U-law, G.722, G.723.1 5.3K/6.3K, G.726, G.729A/B, iLBC, GSM; T.38 Voice and Fax Codecs, H.264, H.263, H.263+ Video Codecs
- TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, SIP (RFC3261), STUN, SRTP, TLS Network Protocols
- Karakteristika te thirrjeve te Centralit Call park, call forward, call transfer, DND, ring/hunt group, paging/intercom among other features
- Telefonata Simultane Deri ne 45
- Ram 512MB

- Hard Drive 4GB Onboard Flash
- LCD Display

9.2 Telefona VoIP (ne tavoline) duhet te kene:

Protokolle/Standartet

SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS (ARecord, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDPMED, LDAP, TR-069, 802.1x, TLS, SRTP

Network Interfaces (Nderfaqja e rrjetit)

Dual switched auto-sensing 10/100 Mbps Ethernet ports, integrated PoE

Graphic Display (monitori): LCD display

Karakteristika te tjera

3 XML programmable context sensitive soft keys, 5 (navigation, menu) keys. Different dedicated function keys for MUTE, HEADSET, TRANSFER, CONFERENCE, SEND and REDIAL, SPEAKERPHONE, VOLUME, PHONEBOOK, MESSAGE, HOLD, PAGE/INTERCOM, RECORD, HOME

Garancia e Sistemit VOIP eshte 1 vit.

Nga Operatori Ekonomik do behet lidhja e Centralit te Telefonise nga Qendra ne njesite administrative.

10. Sistemi Kamerave

a. NVR me 16 kanale me Poe

- Hyrje Video/Audio Input IP dixhitale : 16 kanale
- Lidhje me kamera me distance te larget;
- HDMI dhe VGA simultan me dalje deri 1920×1080P rezolucion.
- Dedektim per rregjistrimet e diteve te festave kur nuk duhet;
- Live view I menjehershem (playback) ne disa kanale;
- Playback I zgjuar per te evituar sekuencat e panevojshme
- Organizimi i kuotave te HDD sipas group management; organizim per kapacitet te ndryshem per cdo kamer ;
- Te vete rregullohet (self-adaptive) ne rrjetet 10M/100M/1000M;
- Te gjej rrjetin automatikisht;
- Rezolucioni Rregjistrimit : 12MP
- Kapaciteti HDD te NVR: Max 4x4TB
- Rackmount

b. Kamera IP Vezhgimi

- Tipi Kameres: Indoor Cube, Indoor Dome
- Procesori i figurës (“image sensor”):

Tipi sensorit: CMOS sensor

Madhësia e sensorit: $1/X^?$, ku $X \leq 3$

- Rezolucioni i figurës: 4Mpx (2688x1520)
 - Ndjeshmëria minimale ndaj dritës e matur në 50 IRE: Color (me Ngjyra)
B/W (Bardhe e Zi): Matur në 30 IRE
 - Shutter Speed”: 1/25 to 1/10,000s
 - Te Suportoje PIR (Passive Infrared Detection) IR 10-20m
 - Tipi i lenteve Fikse
 - Reduktimi Zhurmes 3D
 - IR Cut filter
- c. Sistemi Kabllimit per Kamerate FTP shielded cat.6**

d. HDD 2TB dhe 4TB (Hard Drive Disk) SATA

Keto Hard Disqe te jene vetem per system kamerash me pulle sigurie 24 ore ne 7 dite te javes

Garancia e Sistemit Kamerave eshte 1 vit.

Nga Operatori Ekonomik do behet lidhja e Sistemit te kamerave nga Qendra ne njesite administrative.

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