

Specificații tehnice

[Acest tabel va fi completat de către ofertant în coloanele 2, 3, 4, 6, 7, iar de către autoritatea contractantă – în coloanele 1, 5,]						
Numărul procedurii de achiziție ocds-b3wdp1-MD-1667308316043 din 01/11/2022						
Obiectul achiziției: IP telefonie REPETAT II						
Denumirea bunurilor/serviciilor	Denumirea modelului bunului/serviciului	Țara de origine	Produ-cătorul	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință
Bunuri						
Lot nr.1: Echipament Telecomunicatii						
Lot nr.1.1: Telefon IP	Telefon IP – UC902SP	China	Nanjing Hanlong Technology Co LTD	<p>Telefon IP tip 1 Taste Funcționale: 1 cont SIP, 2 taste de linie cu LED-uri bicolore, 3 taste soft programabile sensibile la context. Afișaj grafic: display LCD de 132 x 48 (2,95 inchi). Interfețe de rețea: porturi Ethernet duale 10/100 Mbps, suport Poe Suport protocoale și standarde: SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLU, LLDPMED, LDAP, TR-069, 802.1x, TLS, SRTP, CDP/SNMP/RTCP-XR Suport codecuri vocale pentru: G.711μ/a, G.722 (bandă largă), G.723,G.726-32, G.729 A/B, iLBC, DTMF în bandă și în afara benzii (În audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC Conținutul pachetului: telefon,</p>	<p>Phone Features 2 SIP accounts Call hold, mute, DND One-touch speed dial, hotline Call forward, call waiting, call transfer Redial, call return, auto answer, direct IP call 5-way conferencing Group listening, SMS, emergency call Ring tone selection/provisioning Set date time automatically or manually Dial plan per account RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035) Action URL/URI Voice Codecs Features</p>	

receptor cu cablu, suport de bază,
alimentare universală, cablu de rețea.

HD voice, HD handset, HD
speaker
Codecs: iLBC, G.722,
G.711(A/μ), Opus
G.723, G.729AB, G.726-32
DTMF: In-band, RFC 2833, SIP
INFO
Full-duplex hands-free
speakerphone with AEC
VAD, AGC, CNG, AEC, PLC,
AJB

Directory
Local phonebook up to 1000
entries
XML/LDAP remote phonebook
Intelligent search method
Phonebook search/import/export
Call history:
dialed/received/missed/forwarded
Black list

IP-PBX Features
Busy Lamp Field (BLF), bridged
Line Appearance (BLA)
Anonymous call, anonymous call
rejection
Message Waiting Indicator (MWI)
, voice mail
Call park, call pickup
Intercom, paging
Music on hold
Hot-desking

Display and Indicator
132x48 pixel graphical LCD with
backlight

LED for call and message waiting indication

Illuminated LEDs for line status information

Intuitive user interface with icons and soft keys

National language selection

Caller ID with name, number

Feature keys

2 line keys with LED

6 features keys: mute, headset, message, transfer, redial, speaker

4 context-sensitive “soft” keys

5 navigation keys

Volume control keys

Interface

Dual-port 10/100M Ethernet

Power over Ethernet (IEEE 802.3af), class 2

1xRJ9 (4P4C) handset port

1xRJ9 (4P4C) headset port

Physical Features

Stand with one angle at 40°

Wall mountable

External universal AC adapter:

AC 100~240V input and DC

5V/1.2A output

Power consumption (PSU):

1.6~2.6W

Power consumption (PoE):

2.0~3.2W

Operating humidity: 10~95%

Operating temperature: -10~50°C

Management
Configuration: browser/LCD-
Menu/auto-provision
Auto provision via HTTP/HTTPS
FTP/TFTP
Auto-provision with PnP
Reset to factory, reboot
Local tracing log export, system
log
Phone lock for personal privacy
protection

Network and Security
SIP v1 (RFC2543), v2
(RFC3261)
SIP server/proxy redundancy
NAT Traversal: STUN mode
DHCP/static/IEEE802.1X/open
VPN
HTTP/HTTPS web server
Time and date synchronization by
SNTP
DNS-NAPTR/DNS-SRV (RFC
3263)
QoS: 802.1p/Q tagging (VLAN),
Layer 3 ToS DSCP
TLS (Transport Layer Security),
SRTP
HTTPS certificate manager
AES encryption for configuration
file
Digest authentication using
MD5/MD5-sess
IPv6 supported

Lot nr.1.2: Telefon IP

Telefon IP —
Htek UC926U

China

Nanjing
Hanlong
Technology Co
LTD

Telefon IP tip 2
Taste caracteristici: 5 conturi SIP, 10 taste de linie.
Display grafic: LCD color TFT de 4,3 inchi (480x272).
Interfață: interfață Wi-Fi dual-band integrată 802.11 a/b/g/n/ac (2,4GHz și 5GHz) și Bluetooth integrat.
Interfețe de rețea: porturi dual Gigabit Ethernet, suport Poe
Suport protocoale și standarde: SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS(A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPV6
Suport codec-uri vocale pentru: G.711μ/a, G.722 (bandă largă), G.723, G.726-32, G.729 A/B, iLBC, DTMF în bandă și în afara benzii (În audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC
Modul de extensie suport
Alimentare: Adaptor universal de alimentare inclus: Intrare: 100 - 240V; Power-over-Ethernet integrat (802.3af)
Conținutul pachetului: telefon, receptor cu cablu, suport de bază, alimentare universală, cablu de rețea.

Phone Features

16 SIP accounts
Call hold, mute, DND
One-touch speed dial, hotline
Call forward, call waiting, call transfer
Redial, call return, auto answer, direct IP call,
5-way conference
Group listening, SMS, emergency call
Ring tone selection/provisioning
Set date time automatically or manually
Dial plan per account
RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035)
Action URL/URI
USB port (2.0 compliant) for: USB call recording through USB flash drive; USB storage (screen saver, wallpaper); USB headset

Audio Features

HD voice, HD handset, HD speaker
Codecs: iLBC, G.722, G.711(A/μ), Opus, G.723.1, G.729AB, G.726-32, G.722.1
DTMF: In-band, RFC 2833, SIP INFO
Full-duplex hands-free speakerphone with AEC
AEC, VAD, AGC,

CNG, PLC, AJB, JIB

Directory

Local phonebook up to 10,000 entries

XML/LDAP remote phonebook

Intelligent search method

Phonebook search/import/export

Call history:

dialed/received/missed/forwarded

Black list

IP-PBX Features

Busy Lamp Field (BLF), bridged

Line Appearance (BLA)

Anonymous call, anonymous call rejection

Hot-desking, voice mail

Call park, call pickup

Intercom, paging

Music on hold

Flexible seating

Call recording

Display and Indicator

4.3" 480 x 272-pixel color display with backlight

24 bit depth color

LED for call and message waiting indication

Dual-color (red or green) illuminated

LEDs for line status information

Wallpaper, national language selection

Intuitive user interface with icons and soft keys

Caller ID with name, number and photo

Feature keys

10 line keys with LED

10 line keys can be programmed up to 36 Paperless DSS keys (4-page view)

8 feature keys: voice mail, headset, mute, speaker, conference, hold, transfer, redial

4 context-sensitive “soft” keys

6 navigation keys (include cancel key) and volume control key

Interface

Dual-port Gigabit Ethernet

Power over Ethernet (IEEE 802.3af), class 3

1xRJ9 (4P4C) handset port

1xRJ9 (4P4C) headset port

Support up to 6 Expansion Modules

1xUSB Port (2.0 compliant)

1xRJ12 (6P6C) EXT port

Support EHS

Physical Features

Stand with 2 adjustable angles

Wall mountable

External universal AC adapter

AC 100~240V input and DC

5V/1.2A output

Power consumption (PSU):

2.0~4.6W

Power consumption (PoE):

2.5~5.5W

Operating humidity: 10~95%
Operating temperature: -10~50°C

Management

Configuration: browser/LCD-
Menu/auto-provision

Auto provision via HTTP/HTTPS
FTP/TFTP

Auto-provision with PnP

Reset to factory, reboot

Local tracing log export, system
log

Phone lock for personal privacy
protection

Wi-Fi/Bluetooth

Network Standard:

IEEE802.11b/g/n/ac

Transmission Rate: 433 Mbps

Frequency Range: 2.4GHz/5Hz

Bluetooth specification:

V4.0+HSsystem

Enhanced Data Rate (EDR)

compliant for both 2Mbps and
3Mbps supported

Bluetooth frequency range:

2.402GHz-2.480GHz

Compatible with Bluetooth
specification V4.0, backward

compatible with Bluetooth1.1 1.2

2.0 and 3.0 for wide-ranging use

Network and Security

SIP v1 (RFC2543), v2
(RFC3261)

SIP server/proxy redundancy

NAT Traversal: STUN mode

					<p>DHCP/static/IEEE802.1X/open VPN</p> <p>HTTP/HTTPS web server</p> <p>Time and date synchronization by SNTP</p> <p>DNS-NAPTR/DNS-SRV(RFC 3263)</p> <p>QoS: 802.1p/Q tagging (VLAN), Layer 3 ToS DSCP</p> <p>TLS(Transport Layer Security), SRTP, ZRTP</p> <p>HTTPS certificate manager</p> <p>AES encryption for configuration file</p> <p>Digest authentication using MD5/MD5-sess</p> <p>IEEE802.1X/Open VPN</p> <p>IPv4/IPv6, LLDP/CDP/DHCP</p> <p>VLAN</p>
Lot 1.3: Statie IP PBX	Statie IP PBX -- Carusto	Marea Britanie	Carusto LP	<p>Capacitate de apel: Utilizatori: 1000</p> <p>Apeluri simultane (G.711): 150</p> <p>Apeluri SRTP simultane maxime (G.711): 100</p> <p>Interfețe de rețea Trei porturi Gigabit</p> <p>Porturi FXS pentru telefon analogic: 2 rj11</p> <p>Linie PSTN porturi FXO: 2 rj11</p> <p>Numărul maxim de participanți la podurile de conferință: 6 săli de conferințe video și până la 30 de petreceri cu 1080p, presupunând 4 fluxuri video + 1 partajare a ecranului (H.264 și Opus) Conferință vocală: până la 150 de persoane (G.711)</p> <p>Codecuri video: H.264, H.263, H263+, H.265, VP8</p> <p>Codecuri de voce și fax Opus, G.711</p>	<p>Capacitate de apel: Sistemul la nivel de nucleu permite fara limite mentinerea peste 2000 abonati; Apeluri simultane: 355, 1:1 cu numarul de abonati; Numărul maxim de participanți la podurile de conferință – 355; Numarul de trunk-uri — 355, Codecuri video: H.264, H.263, H263+, H.265, VP8 — DA; Codecuri de voce și fax Opus, G.711 A-law/U-law, G.722, G722.1 G722.1C, G.723.1 5.3K/6.3K, G.726-32, G.729A/B, iLBC , GSM; T.38 – DA; Conferință vocală – 355 participanti;</p> <p>QoS Layer 2 QoS (802.1Q, 802.1p) și Layer 3 (ToS, DiffServ) QoS</p> <p>Protocoale de rețea: SIP, TCP/UDP/IP,</p>

A-law/U-law, G.722, G722.1
 G722.1C, G.723.1 5.3K/6.3K, G.726-32, G.729A/B, iLBC , GSM; T.38
 Display LCD 320x240 LCD color cu ecran tactil
 QoS Layer 2 QoS (802.1Q, 802.1p) și Layer 3 (ToS, DiffServ, MPLS) QoS
 Protocoale de rețea: SIP, TCP/UDP/IP, RTP/RTCP, IAX, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, STUN, SRTP, TLS, LDAP, HDLC, HDLC -ETH, PPP, Frame Relay (în așteptare), IPv6, OpenVPN®
 Metode de deconectare: Ton de ocupat/aglomerație/Tonul urlet, inversarea polarității, sincronizarea blițului cu cârlig, deconectarea curentului în buclă
 Criptare media: SRTP, TLS, HTTPS, SSH, 802.1X
 Intrare sursă de alimentare universală: 100 ~ 240VAC, 50/60Hz;

RTP/RTCP, ICMP, ARP, DNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, STUN, SRTP, TLS, OpenVPN®

Criptare media: SRTP, TLS, HTTPS, SSH,

5 GRADE PHONE SERVICES
Call Record
Call Parking
Call Forward
Call Hold
Call Pickup
Call Pickup Group
Call Waiting
Call Group
Attendant/Blind/Conference transfer
Intrusion (hidden / talk with client / talk with agent/ conference)
Intercom
Conference
Presence status
Caller ID
SMPP // SMS
Notification by e-mail about missed calls, messages and faxes
Mobility
Intelligent routing of outgoing calls for IP-PBX by:
-the minimum tariff
-time of day and day of week
-operators (routing code Operator)
Intelligent routing of incoming calls on the IP-PBX by:

-define the phone number
-the status of an employee (Manager)
-the competence of the staff (manager, operator, manager)
-longest idle time employee
-the work schedule of the company
Routing scenarios any complication
Dial to Group
Dial to Queue
Voicemail & Voicemail to Email
Secured Tunnel (OpenVPN, encryption algorithm AES-256-CBC, hash algorithm SHA512, key size 1024. Terminal must support protocol and all requested parameters for encryption, hash and key size)
-company departments and employees sections

Music on Transfer
Music on Hold
FAX
FAX to Mail
Feature Codes
Many terminal on same extension
Notification for problem situation
System status
Firewall with Black & White IP list
System backup
Remote Support
SIP Register with UDP/TCP/TLS

Alte informatii in

					documentatia atasata.	
Lot nr. 1.4: Ansamblu cablu	OP-MDAC8P+- P+1SD-1	China	Shenzhen Optostar Optoelectronics Co., LTD	Ansamblu cablu Twinax SFP + la SFP + DAC, pasiv, 1 metru, AWG30. Lungime DAC = cu 2 conectori SFP +. Compatibil pe scara larga cu Cisco, Meraki, Ubiquiti, Netgear, D-Link, TP-Link, QNAP, Supermicro, Mikrotik, Zyxel, Linksys, Broadcom, NetScout, ZTE etc. Cablul SFP + poate conecta diverse dispozitive, cum ar fi comutator de fibra, stocare, router, server, firewall, adaptor de retea, convertor media, centru de date si alte echipamente cu fibra optica cu porturi SFP + etc.	Ansamblu cablu Twinax SFP + la SFP + DAC, pasiv, 1 metru, AWG30. Lungime DAC = cu 2 conectori SFP +. Compatibil pe scara larga cu Cisco, Meraki, Ubiquiti, Netgear, D-Link, TP-Link, QNAP, Supermicro, Mikrotik, Zyxel, Linksys, Broadcom, NetScout, ZTE etc. Cablul SFP + poate conecta diverse dispozitive, cum ar fi comutator de fibra, stocare, router, server, firewall, adaptor de retea, convertor media, centru de date si alte echipamente cu fibra optica cu porturi SFP + etc.	
Lot nr. 1.5: Piese	NC6642	China	Ningbo Latitude International Trade Co., LTD	19" 42U Standard Floor Rack, 600x600	19" 42U Standard Floor Rack, 600x600	
Lot nr. 1.6: Piese	JB01	China	Ningbo Latitude International Trade Co., LTD	Cable Management	Cable Management 1U, metal	
Lot nr. 1.7: Patch Panel optic	ODF 24LC full	China	Shenzhen Optostar Optoelectronics Co., LTD	LC Patch panel optic 24 port, including adaptors and pigtail	LC Patch panel optic 24 port, including adaptors and pigtail	

Lot nr. 1.8: Patch Panel optic	ODF 48LC full	China	Shenzhen Optostar Optoelectronics Co., LTD	LC Patch panel optic 48 port, including adaptors and pigtail	LC Patch panel optic 48 port, including adaptors and pigtail
Lot nr. 1.9: Patch cord optic	LC/UPC-LC/UPC SM D 1m PVC	China	Shenzhen Optostar Optoelectronics Co., LTD	Patch cord optic 1 metru	Patch-cord LC-LC SM 1m duplex
Lot nr. 1.10 Patch cord optic	LC/UPC-LC/UPC SM D 2m PVC	China	Shenzhen Optostar Optoelectronics Co., LTD	Patch cord optic 2 metri	Patch-cord LC-LC SM 2m duplex
Lot nr. 1.11 cablu optic 8 fire	GYXC8H-12B6a1	China	YOFC	cablu optic 8 fire, Tensiune intindere minim 2 kN	Optical Self-support Drop Cable GYXC8H-12B6a1, 12 core, G657A1, LSZH, 1.4mm messenger -- short-term 1,5kn
Lot nr. 1.12: Cablu optic 24fire	GYAXTC8Y-J-24	China	YOFC	Cablu optic 24fire, Tensiune intindere minim 2 kN	Optical Aerial Cable GYAXTC8Y-J-24B1.3, 24 core, HDPE, 7*0.8mm messenger -- short-term 1,5 kn
Lot nr. 1.13: Lucrari instalare echipamente, pozare cablu, sudare, configurare. (implementare proiect la cheie)				Materiale suplimentare pentru instalarea echipamentului	Lucrari instalare echipamente pentru: Echipament Telecomunicatii aplicabile la materialele specificate în LOT nr.1, configurare IP telefoane Htek UC902SP, Htek UC926U, configurare statie PBX Carusto, pozarea si manopera cu materialele de cablaj pasive specificate în LOT nr.1 (cu traseul de cablaj existent si disponibil de a fi utilizat, fara a executa alte actiuni a supra traseului de cablaj).

Semnat:_____

Numele, Prenumele: Calinin Alexandr

În calitate de: Director comercial

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