

Specificații tehnice (F4.1)

Numărul procedurii de achiziție: nr.21029790 din 23.10.2020						
Denumirea procedurii de achiziție: Tehnică audio (repetat)						
Denumirea bunurilor	Modelul articolului	Țara de origine	Produsul	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință
2	3	4	5	6	7	8
Lotul 1 xNODE Analog 4X4						
Lot 1.1 NODE Analog 4X4	AXIA Analog XNode NEW	China	AXIA audio	xNODE Analog 4X4Analog Line Inputs Input Impedance: >40 k Ohms, balanced Nominal Input Range: Selectable, +4 dBu or -10dBv Input Headroom: 20 dB above nominal inputMeta Analog Line Outputs Output Source Impedance: <50 Ohms balanced Output Load Impedance: 600 Ohms, minimum Nominal Output Level: +4 dBu Maximum Output Level: +24 dBu Frequency Response Any input to any output: +/- 0.5 dB, 20 Hz to 20 kHz Latency Analog Input to Analog Output, 2.75ms including network, converters, and mixing process Dynamic Range Analog Inputs to Analog Outputs 108dB referenced to 0dBFs, 111dB Aweighted Analog Inputs to Digital	AXIA Analog XNode NEW Microphone Preamplifiers Source Impedance: 150 Ohms • Input Impedance: 4k Ohms minimum, balanced • Nominal Level Range: Adjustable, -75 dBu to -20 dBu • Input Headroom: >20 dB above nominal input • Phantom power: +48VDC, switchable Analog Line Inputs Input Impedance: >40k Ohms, balanced • Nominal Input Range: Selectable, +4 dBu or -10dBv • Input Headroom: 20 dB above nominal input Analog Line Outputs • Output Source Impedance: <50 Ohms balanced • Output Load Impedance: 600 Ohms, minimum • Nominal Output Level: +4 dBu • Maximum Output Level: +24 dBu Digital Audio Inputs and Outputs • Reference Level: +4 dBu (-20 dB FSD) • Impedance: 110 Ohm, balanced • Signal Format: AES3 (AES/EBU)	

				Outputs 110dB referenced to 0dBFs, 113dB Aweighted Total Harmonic Distortion + Noise Analog Input to Analog Output: < 0.005%, 1 kHz, +18dBu input, +18dBu output Analog Input to Digital Output: < 0.004%, 1 kHz, +18dBu input, -6dBFs output Digital Input to Analog Output: < 0.004%, 1 kHz, -6dBFs input, +18dBu output Crosstalk Isolation, Stereo Separation And CMRR Analog Line channel to channel isolation: 90dB minimum, 20Hz to 20kHz Analog Line stereo separation: 85dB minimum, 20Hz to 20kHz Analog Line Input CMRR: 80dB minimum, 20Hz to 20kHz Power Supply AC Input Auto-ranging supply, 95VAC to 240VAC, 50 Hz to 60 Hz, IEC receptacle, internal fuse Power consumption: 14 Watts I/O connections via industry-standard RJ-45 audio connectors or high density DB-25 connections, both available prefabricated and ready to attach in seconds. AoIP compatible Livewire+.	• AES3 Input Compliance: 24-bit with sample rate conversion • AES3 Output Compliance: 24-bit • Digital Reference: Internal (network timebase) or external reference 48 kHz, +/- 2 ppm • Internal Sampling Rate: 48 kHz • Input Sample Rate: 32 kHz to 192kHz • Output Sample Rate: 44.1 kHz or 48kHz • A/D Conversions: 24-bit, Delta-Sigma, 256x oversampling • D/A Conversions: 24-bit, Delta-Sigma, 256x oversampling	
Lotul 2 Exstreamer & Instreamer						

Lot 2.1 Exstreamer 200 205 IP Audio decoder with S/PDIF and 2x25W amplified output, microSD. Support of Internet Radio (AACplus, MP3, shoutcast, TCP streaming) and VoIP (SIP, RTP) codecs and protocols	Barix Exstreamer 200	China	Barix	MAIN FEATURES ☐ G.711, uLaw, aLaw, PCM Encoding ☐ AACplus, MP3, Ogg Vorbis, G.711, PCM linear Decoding ☐ IP Streaming via TCP, UDP, RTP, Multicast ☐ Amplified Output 2x25W (8 Ohm) ☐ RS-232 Serial Port ☐ Power Supply (24V, included) ☐ MicroSD or USB Flash Interface ☐ IR Interface	Barix Exstreamer 200 IP Audio decoder with S/PDIF and 2x25W amplified output, microSD. Support of Internet Radio (AACplus, MP3, shoutcast, TCP streaming) and VoIP (SIP, RTP) codecs and protocols ☐ G.711, uLaw, aLaw, PCM Encoding ☐ AACplus, MP3, Ogg Vorbis, G.711, PCM linear Decoding ☐ IP Streaming via TCP, UDP, RTP, Multicast ☐ Amplified Output 2x25W (8 Ohm) ☐ RS-232 Serial Port ☐ Power Supply (24V, included) ☐ MicroSD or USB Flash Interface ☐ IR Interface	
Lot 2.2 Instreamer Multiprotocol Audio over IP encoder with line level analog input (stereo), serial port, low latency, PCM G.711, G.722 and MP3 encoding	Barix Instreamer	China	Barix	MAIN FEATURES ☐ G.711, G.722, PCM linear Encoding ☐ MP3 Encoding (low Latency) ☐ Shoutcast/Icecast Source capability ☐ Audio Level Supervision with SNMP Trap generation ☐ IP Streaming via TCP, UDP, RTP, Multicast ☐ Line Level Input (Stereo) ☐ RS-232 Serial Port ☐ Power Supply (micro USB)	Barix Instreamer Multiprotocol Audio over IP encoder with line level analog input (stereo), serial port, low latency, PCM G.711, G.722 and MP3 encoding ☐ G.711, G.722, PCM linear Encoding ☐ MP3 Encoding (low Latency) ☐ Shoutcast/Icecast Source capability ☐ Audio Level Supervision with SNMP Trap generation ☐ IP Streaming via TCP, UDP, RTP, Multicast ☐ Line Level Input (Stereo) ☐ RS-232 Serial Port ☐ Power Supply (micro USB)	
Lotul 3 Router wi-fi	TP-LINK Archer MR200	China	TP-LINK	ANALOG TP -LINK ARCHER MR200 Standards IEEE 802.11ac/n/a 2.4 & 5 GHz Transmission speed (WiFi) 802.11 5 GHz: up to 433 Mb/s 2.4GHz: up to 300 Mb/s Operating bands [GHz] 2.4 i 5 Max output power [dBm] 20 Modulation DBPSK,	TP-LINK Archer MR200 AC750 Wireless Dual Band 4G LTE Router, build-in 4G LTE modem, support LTE (FDD/TDD)/DC-HSPA+/HSPA+/HSPA/UMTS/EDGE/GPRS/GSM, with 3x10/100Mbps LAN ports and 1x10/100Mbps LAN/WAN port, 300Mbps at 2.4GHz, 433Mbps at 5GHz, 802.11b/g/n/ac, 3 internal Wi-Fi antennas, 2 detachable LTE antennas.	

				DQPSK, CCK, OFDM, 16 - QAM, 64 -QAM LTE/3G 4G: FDD -LTE B1/B3/B7/B8/B20 (2100/1800/2600/900/800MHz) TDD -LTE B38/B39/B40/B41 (2600/1900/2300/2500MHz) 3G: DC - HSPA+/HSPA+/HSPA/UMTS B1/B8 (2100/900MHz) 4G: FDD -LTE Cat4 (800/900/1800/2100/2600MHz) TDD -LTE (2300/2600MHz) 3G: DC - HSPA+/HSPA+/HSPA/UMTS (900/2100MHz) 2G: EDGE/GPRS/GSM (850/900/1800/1900MHz) Interfaces 4x10/100 Mb/s LAN (1 port LAN/WAN) Antennas 2x integrated (LTE) 3x internal (WiFi) Power 100 -240 VAC / 12 VDC		
Lotul 5.1 Server Storage	SuperServer 6028R-TCR	China	Supermicro	Key Features 1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E52600 v4/v3 family; UPI up to 9.6GT/s 2. Intel® C612 chipset 3. Up to 1TB ECC 3DS LRDIMM; 8x DIMM slots 4. 1x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 5. Intel® i210 Dual GbE LAN ports 6. Integrated IPMI 2.0 and KVM with Dedicated LAN 7. 8x SAS3 (12Gbps) via Broadcom® 3108; HW RAID 0, 1, 5, 6, 10, 50, 60. 8. 6x SATA3 (6Gbps) via C232; RAID 0, 1, 5, 10 9. 740W Redundant Platinum Power	SuperServer 6028R-TCR Server contains: CPU: 2x Intel® Xeon® 8C/16T Processor E5-2620 v4 2.10 GHz, 20M Cache. RAM: 16GB DDR4-2933 ECC REG DIMM. SSD: 2x 480GB Intel D3-S4510 SATA 6Gb/s up to 2DWPDP . HDD: 6x 8TB 7.2K SATA 6.0 GB/S 256MB 3.5" Enterprise Hard Drive. Key Features: Key Features 1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4/v3 family; UPI up to 9.6GT/s 2. Intel® C612 chipset 3. Up to 1TB ECC 3DS LRDIMM; 8x DIMM slots 4. 1x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 5. Intel® i210 Dual GbE LAN ports 6. Integrated IPMI 2.0 and KVM with Dedicated LAN 7. 8x SAS3 (12Gbps) via Broadcom® 3108; HW RAID 0, 1, 5, 6, 10, 50, 60. 8. 6x SATA3 (6Gbps)	

				Supplies 10. Double power supply Chassis: CSE-825TQ-R740LPB 1 un. Motherboard: X10DRL-C 1 un. CPU: Intel® Xeon® 8C/16T Processor E5-2620 v4 2.10 GHz, 20M Cache 2 un. RAM:16Gb DDR4-2666 ECC REG 1 un. HDD SATA:8TB 7.2K SATA 6.0 GB/S 256MB 3.5" Enterprise Hard Drive 6 un. SSD (No more than 8 drives including HDDs):240GB, 2.5" SATA 6Gb/s, Enterprise SSD 2 un. (Anolog https://kmm.md/ro/product/km-netfire-6028rtcr?order=0KM NETFIRE 6028R-TCR)	via C232; RAID 0, 1, 5, 10 9. 740W Redundant Platinum Power Supplies 2 x Enterprise HBS3A1924A7E6B1 2.5" 240 GB Serial ATA 3D TLC NAND	
Lotul 6 Procesor semnal microfon	dbx DriveRack 260 2x6 I/O Loudspeaker Management System	China	Dbx by Harman	Specifications Mic Preamp Connector XLR Floating balanced, Pin 2 Hot Specifications Mic Preamp Connector XLR Floating balanced, Pin 2 Hot Mic Preamp Input Impedance ~4.2kΩ Mic Preamp gain 0dB to +60dB Mic Preamp Phantom Power +48VDC, applied to XLR pins 2 and 3 through 6.81kΩ resistors CMRR >40dB, typically 55dB Mic Preamp max input level 0.2Vrms, Gain = 30dB Mic Preamp Equivalent Input Noise (EIN) -125dBu, 22Hz-22kHz, 150Ω source	dbx DriveRack 260 2x6 I/O Loudspeaker Management System (Crossover, Graphic EQ, Parametric EQ, Auto-EQ, and Limiter) Input (2) line inputs. (1) RTA Mic input Input (2) Female XLR line inputs. Connectors XLR RTA Mic input Input Type Electronically balanced/RF filtered Input Impedance >40k ohm Max Input +30dBu with input jumpers in +30 position CMRR > 45dB Mic Preamp +15VDC (RTA) Phantom Power	

			impedance Input Connectors (line) Floating balanced, TIP Hot Input Impedance (line) 10kΩ unbalanced, 20kΩ balanced Max Input (line) >+21dBu, balanced or unbalanced Input Gain Range (line) -15dB to +45 dB Insert Connector 1/4" TRS: Normalled; tip is Send, ring is Return Insert Impedance >5kΩ (ring-return); 100Ω (tip-send) Insert Max Level >+21dBu; >+20dBm (600Ω load-tip) Insert Noise <-84dBu, unweighted (20Hz-20kHz); LINE GAIN Control set to 0Db Insert Distortion 0.01% THD, 20Hz-20kHz, +10dBu Output Connectors 1/4" Balanced/Unbalanced TRS Connectors Output Impedance 100Ω unbalanced, 200Ω balanced Max Output >+21dBu, >+20dBm (600Ω load) Gain Adjustment Range -30dB to +10dB Noise <-80dBu unweighted (20Hz-20kHz); Both Gain Controls set for 0dB, all processing controls OFF Frequency Response 20Hz to 20kHz, +0.5, -0.5dB	Mic Preamp Equivalent Input Noise (EIN) < -110dB, 22Hz-22kHz, 150 ohm (RTA) Output 6 total Output Connectors Male XLR Output Type Electronically balanced, RF filtered Output Impedance 120ohm Max Output +22dBu A/D Converter dbx Type IV™ Conversion System A/D Dynamic Range (line) >113 dB, A-weighted, >110 dB unweighted Type IV Dynamic Range >119 dB, A-weighted, 22kHz BW; >117 dB, A-weighted, 22kHz BW Sample Rate 48kHz D/A Dynamic Range 112 dB A-weighted, 109dB unweighted Dynamic Range >110 dB A-weighted, >107dB unweighted THD+Noise 0.003% typical at +4dBu, 1kHz, 0dB gain Frequency Response 20Hz – 20kHz, +/- 0.5dB Interchannel Crosstalk >110dB, 120dB typical, (input-to-output: >100dB)	
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				THD < 0.08%THD, 20Hz-20kHz, +10dBu, all Processing Controls OFF Compressor Threshold Range -40dBu to +20dBu Compressor Threshold Characteristic OverEasy® Compressor Ratio > 4:1 For input levels beyond 20dB above threshold Max Compression 30dB Compressor Attack Time Program-Dependent; >1s for small level increases, down to 10ms for large increases Compressor Release Time Program-Dependent; adjustable between approximately 1dB/sec and 75dB/sec Compressor Distortion Typically < 0.05%THD, 20Hz-20kHz, 15dB G/R, +10dBu Output, DENSITY @ 0 IMD SMPTE: < 0.05%; 60Hz/7kHz 4:1, 15dB G/R, +10dBu Output Level, DENSITY @ 0 De-esser Characteristic Wideband Gain Reduction De-esser Frequency Range 800Hz to 10kHz High Pass, 12dB/octave De-esser Release Time 12dB/octave	
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				Program-Dependent; approximately 1mS/dB Enhancer HF Detail Characteristic Program- controlled shelving equalizer, approximately 15dB maximum HF boost Enhancer LF Detail Characteristic Bell-shaped boost @ 80Hz, bellshaped cut @250Hz, ratio is approximately 2:1 Expander/Gate Threshold Range OFF to +15dBu Expander/Gate Ratio Adjustable 1.5:1 to 10:1 Expander/Gate Max Depth >50dB Expander/Gate Attack Time Program- Dependent, approximately 2mS (at maximum attenuation) Expander/Gate Release TimeProgram- Dependent, approxiamtely 10mS/dB Expander/Gate Dynamic Range Typically 105dB Power Consumption 15W Operating Voltage DO: 120VAC 60Hz, 100VAC 50/60Hz; EU: 230VAC 50/60Hz Operating Temperature 0°C to 45°C (32°F to 113°F) Dimensions 1.75" x 5.75" x 19" (4.5cm x 14.6cm x 48.5cm) Unit	
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				Weight 4.5 lbs/2.04 Kgs Analog cu DBX 286 S		
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Semnat:_____ Numele, Prenumele: Constantin Alexandru În calitate de: director
Ofertantul: Triomac SRL Adresa: Orhei, str Stefan cel Mare 3, ap 16