

ՆԿԱՐԱԳԻՐ

առաջարկվող ապրանքի ամբողջական

Shanxi laboratory Equipment CO LTD-ն ԲԿԳԿ-ԷԱՃԱՊՁԲ-26/10 ծածկագրով կազմակերպված Էլեկտրոնային աճուրդին մասնակցելու շրջանակում ներկայացնում է իր կողմից առաջարկվող ապրանքի ամբողջական նկարագիրը

Չափաբաժնի համար	Առաջարկվող ապրանքի				
	Ֆիրմային անվանումը	ապրանքային նշանը	մակնիշը	արտադրողի անվանումը	տեխնիկական բնութագիրը
1	Shijiazhuang Suin Instruments	Suin	Suin	Shijiazhuang Suin Instruments	<p>Purpose The equipment is intended for modernization of an existing scientific and educational laboratory.</p> <p>All equipment must be new and manufactured in 2025-2026. Main directions of modernization: A Vector Network Analyzer (VNA) with support up to 110 GHz, intended for scientific and educational research in:</p> <ul style="list-style-type: none">characterization of various materialsdevelopment of microwave devices <p>Functional radio testers with a vector signal generator, for creating an independent communication network supporting standards: GSM900 /</p>

GSM1800 / EGPRS, HSPA+, LTE, NB-IoT, eMTC, WLAN, for studying security issues during data transmission between communication devices (mobile phones, NB-IoT sensors, Wi-Fi devices). 1. Vector Network Analyzer (VNA) - 1 unit
Included components: Direct IF input
Direct source and receiver access
Mechanical step attenuator for Port 1 (up to 35 dB, 5 dB steps) Mechanical step attenuator for Port 2 (up to 35 dB, 5 dB steps) Spectrum analyzer mode Time Domain Analysis (TDA) mmWave converter capability
Frequency extension up to 110 GHz
Cable set for mmWave converter system
Technical specifications:
Frequency range: 10 MHz to 110 GHz
Ports: 2-port Aging rate: $\pm 1 \times 10^{-6}$ per year Initial accuracy: $\pm 5 \times 10^{-7}$
Frequency resolution: ≤ 1 Hz
Measurement points: up to 100,001 points IF bandwidth: 1 Hz to 1.5 MHz
Switching time between channels: ≤ 2 ms
Dynamic range (without mmWave converters, up to 67 GHz):
10-30 MHz: ≥ 85 dB 30-100 MHz: ≥ 102 dB 100-500 MHz: ≥ 116 dB 500

MHz-1 GHz: ≥ 130 dB 1-16 GHz: ≥ 134 dB 16-20 GHz: ≥ 131 dB 20-30 GHz: ≥ 127 dB 30-40 GHz: ≥ 119 dB 40-50 GHz: ≥ 105 dB 50-67 GHz: ≥ 98 dB Dynamic range (with mmWave converters, up to 110 GHz): 10-30 MHz: ≥ 54 dB 30-100 MHz: ≥ 94 dB 100-500 MHz: ≥ 94 dB 500 MHz-1 GHz: ≥ 120 dB 1-20 GHz: ≥ 120 dB 20-30 GHz: ≥ 105 dB 30-40 GHz: ≥ 85 dB 40-60 GHz: ≥ 80 dB 60-80 GHz: ≥ 75 dB 80-90 GHz: ≥ 90 dB 90-110 GHz: ≥ 80 dB Output power (without mmWave converters): Up to +16 dBm (low frequencies) Decreasing to +5 dBm (67 GHz) Output power (with mmWave converters): From +10 dBm down to -17 dBm depending on frequency Other parameters: Phase noise (10 kHz offset, 26.5-40 GHz): ≤ -95 dBc/Hz Connectors: 1.85 mm (up to 67 GHz) 1.00 mm (up to 110 GHz) Touchscreen: ≥ 12.1 ", 1280×800 Interfaces: GPIB, LAN, USB, DVI Included accessories: 2 × mmWave converters (same manufacturer as VNA) RF cables (1.85 mm and 1.00 mm) Calibration kits: 1.85 mm (0-67

GHz) 1.00 mm (0-110 GHz) Power sensor up to 110 GHz Torque wrench (8 mm) 2. Vector Signal Generator - 1 unit Capabilities: AM / FM / PM modulation Pulse modulation Digital modulation OFDM signal generation GPS and GLONASS support Frequency range: 4 kHz to 7.125 GHz Resolution: ≤ 0.001 Hz Output level: Up to +16 dBm Down to -145 dBm Phase noise (20 kHz offset): -110 dBc (100 MHz) -95 dBc (up to 7.125 GHz) Digital modulation support: ASK, FSK, PSK, QAM (up to 2048QAM) Interfaces: LAN, USB SCPI remote control RF output: N-type Display: ≥ 5 ", color touchscreen 3. Functional Radio Tester - 1 unit Supported standards: GSM / EGPRS WCDMA / HSPA+ LTE / LTE-A NB-IoT eMTC WLAN (802.11 a/b/g/n/ac) Frequency range: 300 MHz to 6 GHz Key features: Built-in spectrum analyzer TX measurements Network emulation IP traffic and security analysis Interfaces: USB, LAN (1 Gbit) Remote control support Display: 8.4" front panel External touchscreen (15", 1280x800) Includes: 5 x 5G test SIM cards (UICC,

ПОЛНОЕ ОПИСАНИЕ

предлагаемого товара

Shanxi laboratory Equipment CO LTD в качестве участника в рамках участия в электронном аукционе под кодом ЕЦЦС-ЕЦЦУПЗР-26/10 ниже представляет полное описание предлагаемого

3GPP compliant) Software for: automation reporting 4. RF Shielded Enclosure - 1 unit Frequency range: Up to 6 GHz Shielding effectiveness: ≥ 80 dB (0.4-4 GHz) $\geq 60-80$ dB (up to 6 GHz) Includes: Antenna coupler RF connectors (N-type) USB and LAN feedthroughs RF cables 5. Microwave Amplifier - 1 unit Frequency range: 2 GHz to 20 GHz Output power: 17-26 W (depending on frequency) Gain: ≥ 47 dB Noise figure: ≤ 8 dB

технические характеристики Authorization Requirement Each bidder must provide an official manufacturer authorization letter confirming: Status as authorized partner/distributor Right to participate in the tender. All equipment must be new and manufactured in 2025-2026. Main directions of modernization: A Vector Network Analyzer (VNA) with support up to 110 GHz, intended for scientific and educational research in:

configure, integrate, provide software updates Installation and demonstration The supplier must perform at their own expense: VNA: signal generator, for creating an independent communication network Demonstration (S-parameters, supporting standards: GSM900 / impedance, return loss) Signal

Номер лота
фирменное наименование

товарный знак

Предлагаемый товар
марка

наименование производителя

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GSM, GPRS, HSPA, LTE, NB-IoT, 5G, etc.
 Signal generator, attenuator, and receiver
 Setup and integration during data transmission
 Demonstration of wireless communication
 desired (no blocking response)
 Installation and operation
 Network Analyzer (NWA) in unit: 1
 Included components: Direct IF input

Direct source and receiver access
 Mechanical step attenuator for Port 1
 (up to 35 dB, 5 dB steps) Mechanical
 step attenuator for Port 2 (up to 35
 dB, 5 dB steps) Spectrum analyzer
 mode Time Domain Analysis (TDA)
 mmWave converter capability
 Frequency extension up to 110 GHz
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3GPP compliant) Software for:
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Up to 6 GHz Shielding effectiveness:
 ≥ 80 dB (0.4-4 GHz) $\geq 60-80$ dB (up
to 6 GHz) Includes: Antenna coupler
RF connectors (N-type) USB and LAN
feedthroughs RF cables 5. Microwave
Amplifier - 1 unit Frequency range: 2
GHz to 20 GHz Output power: 17-26
W (depending on frequency) Gain: \geq
47 dB Noise figure: ≤ 8 dB
Authorization Requirement Each
bidder must provide an official
manufacturer authorization letter
confirming: Status as authorized
partner/distributor Right to
participate in the tender
Authorization letter must include:
Official letterhead Tender reference
number Signature and stamp
обязательство to: install equipment
configure integrate provide software
updates Installation and
Demonstration The supplier must
perform at their own expense: VNA:
Installation and calibration
Demonstration (S-parameters,
impedance, return loss) Signal

					Generator: Setup and operation Signal generation demo Radio Tester: Setup and integration with existing systems Demonstration of wireless standards testing Amplifier: Installation and operation Functional demonstration Warranty Minimum: 1 year
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