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| ***Ապրանքի*** | | | |
| ***Հրավերով նախատեսված չափաբաժնի համարը*** | ***Գնումների պլանով նախատեսված միջանցիկ ծածկագիրը` ըստ ԳՄԱ դասակարգման (CPV)*** | ***Գնման առարկայի անվանումը*** | ***Տեխնիկական բնութագիրը*** |
| *1* | *31711100* | ***Ռադիոհաճախային անարձագանք խցիկ / RF anechoic chambers*** | *lowest frequency 300 MHz      REFLECTIVITY  min (-20 dB), Internal Size not less than (4m (length) x 5m (width)x 2.8m (height))*  *Երաշխիք՝ առնվազն 1 տարի* |
| *2* | *31711100* | ***Ազդանշանի անալիզատոր / Signal Analyzer*** | *1.1. Frequency Response \_ Frequency Range: 2 MHz to 44 GHz \_ Frequency Stability: Up to ± 0.001 ppm with External Oscillator 1.2. Aging Per Year: 1x10-7 1.3. Amplitude Range \_ Sensitivity: From -154 dBm (at 1 GHz, with Preamplifier Option) \_ Maximum Input Level: +30 dBm (Peak) \_ Amplitude Measurement Accuracy: ± 0.1 dB 1.4. Resolution and Speed \_ Resolution: 1 Hz \_ Resolution Bandwidth (RBW)\*\*: 1 Hz to 10 MHz \_ Signal Analysis Bandwidth: 1 GHz or more \_ Maximum Analysis Speed: Up to 100,000 points per second 1.5. Displayed Average Noise Level: –142 dBm to -154 dBm 1.6. Third-Order Intercept Point (TOI): +20 dBm at 1 GHz 1.7. SSB Phase Noise (1 Hz), f = 1 GHz, 10 kHz Carrier Offset: -120 dBc 1.8. Time and Delay \_ Frequency Settling Time: < 1 ms (depending on band) \_ Total Measurement Time: 10 ms or less per bandwidth 2. Interfaces \_ Communication interfaces: LAN, USB 2.0/3.0, HDMI, 10/100/1000BASE-/10GBASE-T (10 Gbps LAN interface for fast remote control and fast I/Q data transfer). \_ Control: support SCPI and other protocols for remote control and automation \_ Synchronization support: external triggers and external synchronization with a frequency of 10 MHz 3. Additional characteristics \_ Screen: 1280 × 800 pixel (WXGA) color touch screen with a diagonal of at least 10.1 inches \_ Power supply: 100-240 V, 50/60 Hz \_ Dimensions and weight: 460 x 240 x 430 mm, weight about 18 kg \_ Operating temperature range: from 0 to +50 °C 4. Functionality \_ Signal scanning: the ability to analyze several channels or frequency ranges \_ Saving and exporting data: support for CSV, PDF and other formats for reports and graphs 5. Reliability and safety requirements \_ Warranty service: at least 1 year \_ Overvoltage protection: built-in mechanisms for protection when the permissible signal level is exceeded \_ Electromagnetic compatibility: compliance with EMC standards for laboratory equipment 6. Delivery and completeness 7. Delivery set: \_ Spectrum analyzer \_ Network cable \_ USB cable \_ Documentation and instructions \_ Calibration certificate 8. Additional installed options: \_ Temperature-controlled quartz oscillator (OCXO) \_ High-performance CPU \_ 10GBASE-T (10 Gbps LAN interface)*  *Երաշխիք՝ առնվազն 1 տարի* |
| *3* | *31711100* | ***Ազդանշանի գեներատոր/ Signal Generator*** | *1. Frequency characteristics \_ Frequency range: from 2 MHz to 40 GHz \_ Frequency resolution: 0.001 Hz \_ Phase noise: less than -134 dBc/Hz at 1 GHz offset with 20 kHz offset 2. Modulation bandwidth \_ Modulation bandwidth (maximum), hardware and software: up to 500 MHz \_ Supported modulation types: AM, FM, PM, as well as digital modulation (QAM, PSK and others) \_ Modulating signal frequency range: from 1 Hz to 500 MHz 3. Amplitude characteristics \_ Range of adjustable output power: from -145 dBm to +30 dBm \_ Specified level range depending on frequency: from -120 dBm to +18 dBm \_ Output power accuracy: 0.01 dB \_ Harmonic level: less than -55 dBu \_ Output signal limiting and stabilization: built-in level control function to prevent overload 4. Memory for arbitrary waveform generator \_ Extended memory for 1 Giga samples/s 5. I/Q baseband generator: real-time operation (adjustable digital modulation) 6. Interfaces and control \_ Radio interface: PC 2.92 mm or 1.85 mm. \_ I/Q interface: BNC \_ Communication interfaces: LAN, 10/100/1000BASE-T, USB 2.0, USB 3.0, HDMI support for connecting external displays \_ I/Q modulation interface: HS DIG I/Q \_ Control support: SCPI for automation, interface for remote control via LAN \_ Synchronization capability: inputs and outputs for synchronization with an external 10 MHz signal 7. Functionality \_ Digital modulation: built-in modulators for various formats, including QAM, PSK, and OFDM and others. \_ Modulation and signal generation: support for custom formats and data import to create unique signals 8. Reliability and safety requirements \_ Manufacturer's warranty: minimum 1 year \_ Overload protection: built-in protection system to prevent damage to output circuits \_ Electromagnetic compatibility: compliance with standards for industrial laboratory equipment 9. Delivery and completeness requirements Shipment kit: \_ Signal generator \_ Network cable \_ Documentation and user manual \_ Calibration certificate 10. Additional options: \_ Hardware and software support for signal generation in a band of at least 500 MHz \_ Built-in arbitrary signal generator with extended memory up to 1 Gsamples/s.* |
| *4* | *31711100* | ***Ազդանշանի գեներատոր/Signal Generator*** | *Keysight E8267D Psg Signal Generators 100 kHz to 67 GHz կամ համարժեք*  *Երաշխիք՝ առնվազն 1 տարի* |