



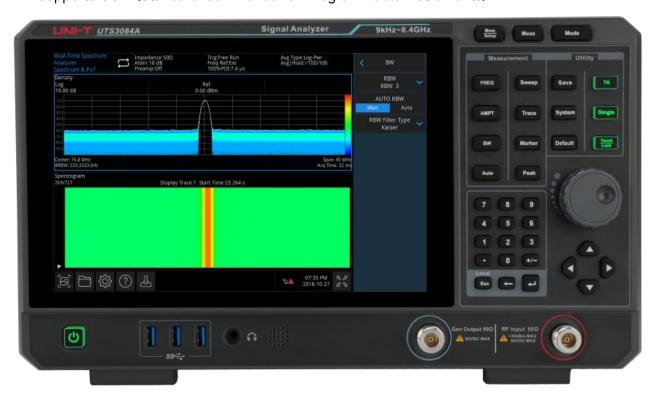
UTS3000A Series Signal Analyzer

Data Sheet

V 1.2 August 2025

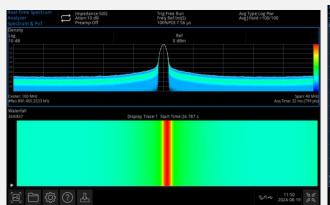
Product Features

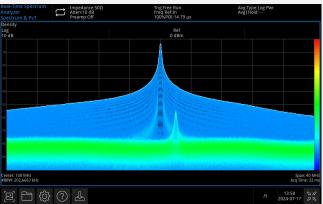
- Frequency Range: 9 kHz to 8.4 GHz (Max.)
- Displayed Average Noise Level (DANL):165 dBm/Hz (Typ.)
- Phase Noise: < -102 dBc/Hz (Offset Phase Noise: 10 kHz, Typ.)</p>
- Full Amplitude accuracy: < 0.7 dB
- Sweep Points up to 40,001
- Minimum Resolution Bandwidth (RBW): 1 Hz
- Supports tracking generator output and Vector Network Analysis
- Real-time Spectrum Analysis mode provides display methods for both probability density spectrum and spectrum, allowing real-time visualization of measured results
- Various trigger mode and trigger template
- Max. Analyze Bandwidth: 40 MHz (Option)
- Supports Advanced function of One Key Measurement (Option)
- Supports EMI Analysis function (Option)
- Supports Analog Demodulation Analysis (Option)
- Supports Vector Signal Analysis (Option)
- 10.1-inch 1280 × 800 Multi-touch HD screen
- Supports SCPI (Standard Commands for Programmable Instruments)



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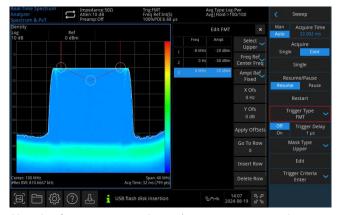
Real-time Frequency Sweep Analysis Mode





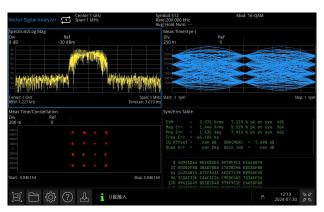
Use combined display with density spectrograms for continuous spectral display, visualizing the frequency occurrence of signals and capturing small signals in the presence of larger ones.

Frequency Template Trigger



Use the frequency template trigger to generate the measurement of episodic or transient signals.

Signal Demodulation Analysis



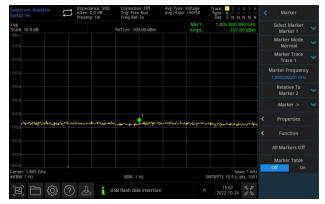
Provides AM, FM, and PM analog signal Analysis; Supports digital signal Analysis for ASK, FSK, PSK, QAM, MSK, DPSK, including EVM calculation.

Excellent Selectivity



It has a strong capability to distinguish between signals with unequal adjacent amplitudes.

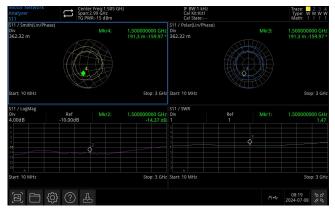
Excellent Sensitivity to Test Weaker Signals



Weak signal testing can be significantly impacted by the noise floor of the spectrum analyzer. With a DANL as low as -165 dBm, UTS3000A series provides excellent sensitivity, enabling effective testing of weak signals.

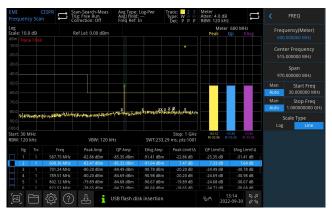
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Vector Network Analysis



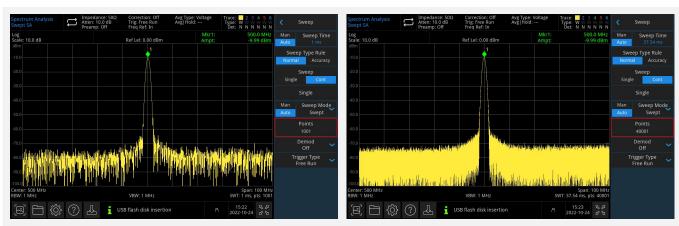
VNA mode allows for precise characterization of the network properties of measured components and circuit networks by measuring S11 and S21 parameters, with various display methods such as Smith charts and polar coordinates. The touch to based interface simplifies the measurement process, enabling users to achieve better results in less time.

EMI Pre-compliance and Conformance Test



Passing electromagnetic interference (EMI) performance testing early can prevent delays in bringing your product to market. To ensure a successful final EMI conformance test, conduct pre-compliance testing during product development. Identifying EMI issues early in the design cycle allows for in to house conducted and radiated emission testing, which can shorten the test cycle.

Sweep Point up to 40,001



The UTS3000A series provides up to 40,001 sweep points, offering higher frequency resolution and making it easier to capture hard-detect signals.

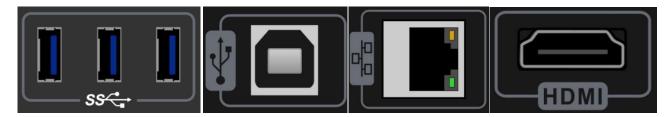
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Multi-touch HD screen for quickoperation



The 10.1-inch multi-touch HD capacitive screen offers quick menu settings and supports various gestures, including dragging, expanding, and zooming on traces. This user to friendly interface enhances human to computer interaction, addressing issues of cumbersome and complex operations.

Various Interfaces



UTS3000A series offers multiple connection options, enhancing flexibility and convenience.

Multiple Control Method

The instrument can be controlled using SCPI commands or through secondary development.

Instrument Management (Free Software provided by UNI-T)



Install the instrument management software on a PC via LAN or USB flash drive to control the instrument.

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WebServer



Supports SCPI remote control, remote viewing, and control of exported trace data, as well as other operations. It enables online browsing and use and supports access from both PCs and mobile phones.

Definitions and Conditions

"**Specifications**" describes the performance of the parameters covered by the product warranty. Unless otherwise noted, these specifications apply within the temperature range of 20°C to 30°C.

"Typical Value" (Typ.) refers to additional performance information that is not covered by the product warranty. When performance exceeds specifications, 80% of units can demonstrate this performance with a 95% confidence level over a temperature range of 20°C to 30°C. Typical performance does not account for measurement uncertainty.

"Nominal Value" (Nom.) refers to the expected performance or describes product performance useful in applications but not covered by the product warranty.

The analyzer can meet its specifications under the following conditions:

The instrument should be within its calibration cycle and warmed up for at least 30 minutes.

If the analyzer has been stored within the allowable storage temperature range but outside the allowable operating temperature range, it must be placed within the allowable operating temperature range for at least two hours before use.

Product Function and Model Comparison Table

| | UTS3084A | UTS3060A | UTS3036A |
|-----------------------------|----------|----------|----------|
| Spectrum Analyzer | • | • | • |
| Real-time Spectrum Analyzer | • | • | • |
| Vector Network Analyzer | • | • | • |
| Tracking Generator | • | • | • |
| I/Q Analyzer | 0 | 0 | 0 |
| EMI | 0 | 0 | 0 |
| Analog Demodulation | 0 | 0 | 0 |
| Vector Signal Analyzer | 0 | 0 | 0 |
| Advanced Measurement | 0 | 0 | 0 |

Note: ● Standard, ○ Option, × Not Available

Frequency and Time Specification

| Model UT\$3084A UT\$3056A 9 kHz to 3.6 GHz Frequency Range 9 kHz to 8.4 GHz 9 kHz to 6 GHz 9 kHz to 3.6 GHz Resolution 1 Hz 10 MHz Internal Frequency 10.000000 MHz Accuracy ± [(Time since last calibration × Frequency aging rate)+ Temperature stability + Initial calibration accuracy] Achievable Initial Calibration < 1 ppm Galibration 5 to +45°C, take 25°C as reference Frequency aging Rate 0.5 ppm/First year, 3 ppm/Twenty years Frequency Readout Accuracy (start, stop, center, and marker) Marker Resolution Marker Frequency ± (Marker frequency x Frequency reference accuracy + 1 % x Span + Uncertainty Uncertainty 10 % x RBW+Marker resolution) Marker Mode Normal, Delta∆, Fixed Marker Frequency Marker Noise, Band Power, Band Density, N dB, Counter Counter Resolution 1 Hz Uncertainty of Frequency Counter ±[Marker frequency x Frequency reference accuracy+Counter resolution] Frequency Span 2 Marker Noise, Band Power, Band Density, N dB, Counter Frequency Span + Span / (Sweep point -1)] Accuracy ± [Marker frequency x Frequency reference | Frequency | | | |
|---|------------------------|---|-----------------------|------------------------|
| Resolution 1 Hz 10 MHz Internal Frequency Reference Reference Frequency 10,000000 MHz Accuracy | Model | UTS3084A | UTS3060A | UTS3036A |
| To MHz Internal Frequency Reference | Frequency Range | 9 kHz to 8.4 GHz | 9 kHz to 6 GHz | 9 kHz to 3.6 GHz |
| Reference Frequency Accuracy # [(Time since last calibration × Frequency aging rate)+ Temperature stability + Initial calibration accuracy] Achievable Initial Calibration Temperature Stability | Resolution | 1 Hz | | |
| # [(Time since last calibration × Frequency aging rate) + Temperature stability + Initial calibration accuracy] Achievable Initial Calibration Temperature Stability < 1 ppm | 10 MHz Internal Fred | quency Reference | | |
| Accuracy Achievable Initial Calibration Temperature Stability < 1 ppm 5 to +45°C, take 25°C as reference Frequency aging Rate O.5 ppm/First year, 3 ppm/Twenty years Frequency Readout Accuracy (start, stop, center, and marker) Marker Resolution Span / (Sweep point -1) Marker Frequency Uncertainty 10 % x RBW+Marker resolution) Marker Mode Normal, DeltaΔ, Fixed Marker Function Marker Frequency x Frequency reference accuracy + 1 % x Span + Uncertainty 10 % x RBW+Marker resolution) Marker Function Marker Function Marker Function Marker Frequency x Frequency reference accuracy+Counter Frequency Counter Frequency Counter Frequency Span Accuracy O Hz, 100 Hz to 8.4 GHz Swept ± [0.25%*Span +Span / (Sweep point -1)] Sweep time and Trigger Sweep time Range 1 ms to 4000 s (Span≠0) 1 μs to 4000 s (Span=0) Sweep type rule Normal, accuracy Sweep Mode Swept, FFT Sweep/Measurement Continuous, single Free Run, External, Video External trigger Input Resolution Bandwidth (RBW) | Reference Frequency | 10.000000 MHz | | |
| Calibration < 1 ppm | Accuracy | | , , , | ing rate)+ Temperature |
| Frequency aging Rate 0.5 ppm/First year, 3 ppm/Twenty years Frequency Readout Accuracy (start, stop, center, and marker) Marker Resolution Span / (Sweep point -1) Marker Frequency ± (Marker frequency × Frequency reference accuracy + 1 % x Span + Uncertainty 10 % x RBW+Marker resolution) Marker Mode Normal, DeltaΔ, Fixed Marker Function Marker Noise, Band Power, Band Density, N dB, Counter Counter Resolution 1 Hz Uncertainty of ±[Marker frequency x Frequency reference accuracy+Counter resolution] Frequency Counter resolution] Frequency Span Range 0 Hz, 100 Hz to 8.4 0 Hz, 100 Hz to 6 GHz GHz Swept ± [0.25%*Span +Span / (Sweep point -1)] FFT ± [0.10%* Span +Span / (Sweep point -1)] Sweep time and Trigger Sweep time Range 1 ms to 4000 s (Span≠0) 1 μs to 4000 s (Span=0) Sweep type rule Normal, accuracy Sweep Mode Swept, FFT Sweep/Measurement Continuous, single Sweep Trigger Free Run, External, Video External trigger Input 5V TTL, rising edge/falling edge Resolution Bandwidth (RBW) | | < 1 ppm | | |
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| Marker ResolutionSpan / (Sweep point -1)Marker Frequency± (Marker frequency x Frequency reference accuracy + 1 % x Span + UncertaintyUncertainty10 % x RBW+Marker resolution)Marker ModeNormal, DeltaΔ, FixedMarker FunctionMarker Noise, Band Power, Band Density, N dB, CounterCounter Resolution1 HzUncertainty of Frequency Counter±[Marker frequency x Frequency reference accuracy+Counter resolution]Frequency Span0 Hz, 100 Hz to 8.4 GHz0 Hz, 100 Hz to 6 GHz GHzAccuracySwept± [0.25%*Span +Span / (Sweep point -1)]FFT± [0.10%* Span +Span / (Sweep point -1)]Sweep time and TriggerSweep time Range1 ms to 4000 s (Span≠0)1 μs to 4000 s (Span=0)Sweep type ruleNormal, accuracySweep ModeSwept, FFTSweep/MeasurementContinuous, singleSweep TriggerFree Run, External, VideoExternal trigger Input5V TTL, rising edge/falling edgeResolution Bandwidth (RBW) | Frequency aging Rate | 0.5 ppm/First year, 3 p | pm/Twenty years | |
| Marker Frequency Uncertainty 10 % x RBW+Marker resolution) Marker Mode Normal, DeltaΔ, Fixed Marker Function Marker Noise, Band Power, Band Density, N dB, Counter Counter Resolution 1 Hz Uncertainty of Frequency Counter Frequency Span Range 0 Hz, 100 Hz to 8.4 GHz Swept ± [0.10%* Span +Span / (Sweep point -1)] FFT \$\frac{\pmathbb{E}}{\pmathbb{E}} \text{ Im s to 4000 s (Span≠0)} \text{ 1 μs to 4000 s (Span=0)} Sweep Mode Swept Free Run, External, Video External trigger Input ### (Marker frequency x Frequency reference accuracy + 1 % x Span + 1 Mz x Span + 1 M | Frequency Readout | Accuracy (start, stop, | center, and marker) | |
| Uncertainty10 % x RBW+Marker resolution)Marker ModeNormal, DeltaΔ, FixedMarker FunctionMarker Noise, Band Power, Band Density, N dB, CounterCounter Resolution1 HzUncertainty of Frequency Counter±[Marker frequency x Frequency reference accuracy+Counter resolution]Frequency SpanRange0 Hz, 100 Hz to 8.4 GHz0 Hz, 100 Hz to 6 GHz GHz0 Hz, 100 Hz to 3.6 GHzAccuracySwept± [0.25%*Span +Span / (Sweep point -1)]FFT± [0.10%* Span +Span / (Sweep point -1)]Sweep time and TriggerSweep time Range1 ms to 4000 s (Span≠0)1 μs to 4000 s (Span=0)Sweep type ruleNormal, accuracySweep ModeSwept, FFTSweep/MeasurementContinuous, singleSweep TriggerFree Run, External, VideoExternal trigger Input5V TTL, rising edge/falling edgeResolution Bandwidth (RBW) | Marker Resolution | Span / (Sweep point -1 |) | |
| Marker ModeNormal, Delta∆, FixedMarker FunctionMarker Noise, Band Power, Band Density, N dB, CounterCounter Resolution1 HzUncertainty of Frequency Counter Frequency Counter resolution]±[Marker frequency x Frequency reference accuracy+Counter resolution]Range0 Hz, 100 Hz to 8.4 GHz0 Hz, 100 Hz to 6 GHz GHzGHzSwept± [0.25%*Span +Span / (Sweep point -1)]FFT± [0.10%* Span +Span / (Sweep point -1)]Sweep time and TriggerSweep time Range1 ms to 4000 s (Span≠0)1 μs to 4000 s (Span=0)Sweep type ruleNormal, accuracySweep ModeSwept, FFTSweep/MeasurementContinuous, singleSweep TriggerFree Run, External, VideoExternal trigger Input5V TTL, rising edge/falling edgeResolution Bandwidth (RBW) | Marker Frequency | ± (Marker frequency x Frequency reference accuracy + 1 % x Span + | | |
| Marker FunctionMarker Noise, Band Power, Band Density, N dB, CounterCounter Resolution1 HzUncertainty of Frequency Counter resolution]±[Marker frequency x Frequency reference accuracy+Counter resolution]Frequency Span0 Hz, 100 Hz to 8.4 GHz0 Hz, 100 Hz to 6 GHz GHz0 Hz, 100 Hz to 3.6 GHzAccuracySwept± [0.25%*Span +Span / (Sweep point -1)]FFT± [0.10%* Span +Span / (Sweep point -1)]Sweep time and TriggerSweep time Range1 ms to 4000 s (Span≠0)1 μs to 4000 s (Span=0)Sweep ModeSwept, FFTSweep/MeasurementContinuous, singleSweep TriggerFree Run, External, VideoExternal trigger Input5V TTL, rising edge/falling edgeResolution Bandwidth (RBW) | Uncertainty | 10 % x RBW+Marker resolution) | | |
| Counter Resolution 1 Hz Uncertainty of ±[Marker frequency x Frequency reference accuracy+Counter resolution] Frequency Counter resolution] Range 0 Hz, 100 Hz to 8.4 GHz 0 Hz, 100 Hz to 6 GHz GHz Accuracy 5 Swept ± [0.25%*Span +Span / (Sweep point -1)] FFT ± [0.10%* Span +Span / (Sweep point -1)] Sweep time and Trigger Sweep time Range 1 ms to 4000 s (Span≠0) 1 μs to 4000 s (Span=0) Sweep type rule Normal, accuracy Sweep Mode Swept, FFT Sweep/Measurement Continuous, single External trigger Input 5V TTL, rising edge/falling edge Resolution Bandwidth (RBW) | Marker Mode | Normal, Delta∆, Fixed | | |
| Uncertainty of Frequency Counter resolution] Frequency Span Range O Hz, 100 Hz to 8.4 GHz O Hz, 100 Hz to 6 GHz GHz Swept ± [0.25%*Span +Span / (Sweep point -1)] FFT ± [0.10%* Span +Span / (Sweep point -1)] Sweep time and Trigger Sweep time Range 1 ms to 4000 s (Span≠0) 1 μs to 4000 s (Span=0) Sweep Mode Swept, FFT Sweep/Measurement Continuous, single External trigger Input FET Free Run, External, Video External trigger Input FYER SWEED HAVE ACCURACY FREE RESOLUTION BANDWIGHTEN ACCURACY FREE RESOLUTION BANDWIGHTEN ACCURACY FREE RESOLUTION BANDWIGHTEN ACCURACY FREE RUN, External, Video External trigger Input FYER SWEED FREE RUN, External, Video External trigger Input Free Run, External, Video | Marker Function | Marker Noise, Band Power, Band Density, N dB, Counter | | |
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| Sweep Trigger Free Run, External, Video External trigger Input 5V TTL, rising edge/falling edge Resolution Bandwidth (RBW) | Sweep Mode | Swept, FFT | | |
| External trigger Input 5V TTL, rising edge/falling edge Resolution Bandwidth (RBW) | Sweep/Measurement | Continuous, single | | |
| Resolution Bandwidth (RBW) | Sweep Trigger | Free Run, External, Vid | eo | |
| | External trigger Input | 5V TTL, rising edge/falling edge | | |
| Range (-3.01 dB | Resolution Bandwidt | h (RBW) | | |
| | Range (-3.01 dB | 1 Hz to 10 MHz, step w | rith 1-3-10 | |

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| Bandwidth) | | |
|-----------------------|----------------------------------|--|
| Selectivity | < 4.8:1 (Nom.) -60 dB: -3 dB | |
| Bandwidth Accuracy | < 5% (Nom.) | |
| Video Bandwidth (VBW) | | |
| VBW Range | 1 Hz to 10 MHz, step with 1-3-10 | |
| VBW Uncertainty | < 5% | |

Amplitude Accuracy and Range

| Amplitude Range | | | |
|-------------------------------------|--|-------------------------------------|--|
| Range | 10 MHz to maximum frequency: DANL to +30 dBm | | |
| Reference Level | -100 dBm to +30 dBm, ste | -100 dBm to +30 dBm, step with 1 dB | |
| Preamp | 20 dB (Nom.), 100 kHz to | 3.6 GHz (6 GHz, 8.4 GHz) | |
| Input Attenuation | 0 to 51 dB, step with 1 dB | | |
| Maximum Damage Level | | | |
| DC Voltage | 50 VDC | Max. | |
| Maximum Continuous Wave RF Power | ≤+30 dBm | Input attenuation >20 dB | |
| Display Range | | | |
| Log Scale | 1 dB to 200 dB | | |
| Linear Scale | 0 to reference level | | |
| Scale Units | dBm, dBmV, dB μ V, V, W | | |
| Sweep (trace) Point Range | 40,001 | | |
| Number of Traces | 6 | | |
| Detection Mode | Peak, Negative Peak, Sample, Normal, Average | | |
| Trace Type | Refresh, Trace Average, Max. Hold, and Min. Hold | | |
| Frequency Response | | | |
| 20°C to 30°C, 30% to 70% RH., Input | ut Attenuation 20 dB, Relativ | e to 50 MHz | |
| Preamp Off | 9 kHz to 3.6 GHz | ± 0.6 dB; ± 0.3 dB (Typ.) | |
| Freamp On | 3.6 GHz to 8.4 GHz | ± 0.8 dB; ± 0.6 dB (Typ.) | |
| Preamp On | 100 kHz to 3.6 GHz | ± 1.0 dB; ± 0.8 dB (Typ.) | |
| Treamp on | 3.6 GHz to 8.4 GHz | ± 1.2 dB; ± 1.0 dB (Typ.) | |
| Error and Accuracy | | | |
| Resolution Bandwidth Switching | Relative to a 10 kHz RBW, Logarithmic Resolution ± 0.2 | | |
| Uncertainty | dB, Linear Resolution ± 0.01 (Nom.) | | |
| Input Attenuation Switching | 20°C to 30°C, fc=50 MHz, | Preamp Off, Relative to 20 dB | |

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| Uncertainty | Attenuation, Input Attenuation: 1 to 51 dB | |
|--|--|--|
| | ± 0.5 dB | |
| | 20°C to 30°C, fc=50 MHz, RBW=1 kHz, VBW=1 kHz, peak | |
| AL 1 A 19 L A | detection, input attenuation: 20 dB | |
| Absolute Amplitude Accuracy | ± 0.4 dB, input signal level: -20 dBm, Preamp Off | |
| | ± 0.5 dB, input signal level: -40 dBm, Preamp On | |
| | 20°C to 30°C, fc>100 kHz, input Signal level: -50 dBm to 0 | |
| Table Alexandra Assalla da Assalla | dBm, RBW=1 kHz, VBW=1 kHz, Peak detection, input | |
| Total Absolute Amplitude Accuracy | Attenuation: 20 dB, Preamp Off, 95% Reliability | |
| | ± (0.4 dB + Frequency response) | |
| Input Voltage Standing Wave Ratio (VSWR) | io < 1.8 (Nom.) | |

Dynamic Range Specifications

1 dB Gain Compression Point

20°C to 30°C, fc≥ 50 MHz, input attenuation 0 dB, Preamp off

> - 5 dBm (Nom.)

Displayed Average Noise Level (DANL)

20°C to 30°C, input load, 0 dB RF attenuation, RBW=1 Hz, sample or average detection, trace average>50

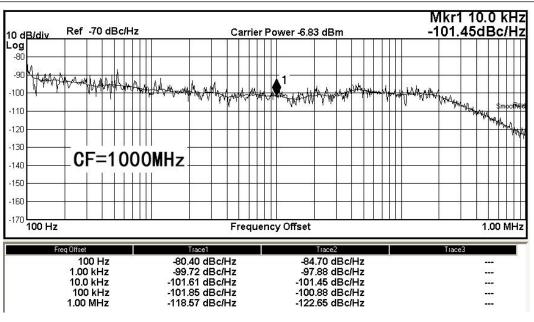
| | 100 kHz to 500 kHz | -120 dBm (Nom.) |
|------------|--------------------|---------------------------|
| | 500 kHz to 1 MHz | -125 dBm, -128 dBm (Typ.) |
| | 1 MHz to 10 MHz | -130 dBm, -132 dBm (Typ.) |
| | 10 MHz to 200 MHz | -145 dBm, -150 dBm (Typ.) |
| | 200 MHz to 1.5 GHz | -145 dBm, -148 dBm (Typ.) |
| Preamp off | 1.5 GHz to 3.2 GHz | -143 dBm, -146 dBm (Typ.) |
| | 3.2 GHz to 4.5 GHz | -142 dBm, -145 dBm (Typ.) |
| | 4.5 GHz to 6.2 GHz | -140 dBm, -143 dBm (Typ.) |
| | 6.2 GHz to 7.5 GHz | -138 dBm, -143 dBm (Typ.) |
| | 7.5 GHz to 8.4 GHz | -139 dBm, -141 dBm (Typ.) |
| | 100 kHz to 500 kHz | -135 dBm (Nom.) |
| | 500 kHz to 1 MHz | -140 dBm, -145 dBm (Typ.) |
| Preamp on | 1 MHz to 10 MHz | -150 dBm, -153 dBm (Typ.) |
| | 10 MHz to 200 MHz | -162 dBm, -166 dBm (Typ.) |
| | 200 MHz to 1.5 GHz | -162 dBm, -165 dBm (Typ.) |
| | · | |

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| 1.5 GHz to 3.2 GHz | -160 dBm, -162 dBm (Typ.) |
|--------------------|---------------------------|
| 3.2 GHz to 4.5 GHz | -157 dBm, -160 dBm (Typ.) |
| 4.5 GHz to 6.2 GHz | -155 dBm, -158 dBm (Typ.) |
| 6.2 GHz to 7.5 GHz | -158 dBm, -160 dBm (Typ.) |
| 7.5 GHz to 8.4 GHz | -155 dBm, -158 dBm (Typ.) |

| Spurious Pospo | Spurious Responses | | |
|-------------------|---|---|--|
| Spurious Respu | Dises . | | |
| Second | 20°C to 30°C, Preamp off, signal input -30 dBm, 0 dB RF attenuation | | |
| harmonic | (> 50 MH | (F. ID. (7.F. ID. | |
| distortion (SHI)/ | fc≥ 50 MHz | -65 dBc/+35 dBm | |
| Third-order | 20°C to 30°C, Preamp off, si | gnal input -20 dBm, 0 dB RF attenuation, fc≥ 50 | |
| intermodulation | MHz | | |
| (TOI) | +10 dBm; +13 dBm (Nom.) | | |
| Input related | 20°C to 30°C, mixer level -3 | 0 dBm | |
| spurious | < -60 dBc | | |
| Residual | 20°C to 30°C, input port 50 | Ω, input attenuation 0 dB | |
| response | < -90 dBm | | |
| Phase Noise | | | |
| 20°C to 30°C, Fo | 20°C to 30°C, Fc=1 GHz, RBW=1 kHz, VBW=10Hz, sample detection, trace average>50 | | |

| 20 C 10 30 C | , rc-1 Gnz, RDVV-1 Knz, VDVV-10nz, Sample detection, trace average/50 |
|--------------|---|
| Offset | |
| 10 kHz | -100 dBc/Hz, -102 dBc/Hz (Typ.) |
| 100 kHz | -100 dBc/Hz, -102 dBc/Hz (Typ.) |
| 1 MHz | -110 dBc/Hz, -112 dBc/Hz (Typ.) |



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Tracking Generator Specifications

| Output frequency | | | |
|----------------------------------|--------------------|------------------|--------------------|
| Model | UTS3084A | UTS3060A | UTS3036A |
| Range | 100 kHz to 6 GHz | 100 kHz to 6 GHz | 100 kHz to 3.6 GHz |
| Frequency resolution | 10 Hz | | |
| Output power level | | | |
| Range | -40 dBm to 0 dBm | | |
| Resolution | 0.5 dB | | |
| Output flatness | Relative to 50 MHz | | |
| Output flatness | ± 3 dB | | |
| Maximum safe reverse input level | | | |
| Average total Power | 30 dBm | | |
| AC coupling | ± 50 VDC | | |

Vector Network Analyzer

| Measurement Settings | | | |
|----------------------|--|-------------------------|-------------------------|
| Model | UTS3084A | UTS3060A | UTS3036A |
| Frequency Range | 100 kHz to 6 GHz | 100 kHz to 6 GHz | 100 kHz to 3.6 GHz |
| Measurement type | Reflection (S11), tran | smission (S21), DTF | |
| IF BW (Intermediate | 400 11 4 MI | | |
| Frequency Bandwidth) | 100 Hz to 1 MHz | | |
| Measurement Point | 101 to 10,001, defaul | t 201 | |
| Trace Type | Trace memory, trace | operation, refresh, tra | ace average, max. hold, |
| Trace Type | and min. hold | | |
| | Logarithmic amplitude, linear amplitude, phase, group delay, | | |
| Trace Format | standing-wave ratio (SWR), real part, imaginary part, extended | | |
| | phase, and positive phase; | | |
| | Smith chart (linear/phase, logarithm/phase, real part/ imaginary | | |
| | part, R+jx, and G+jb); | | |
| | Polar coordinate diaç | gram (linear/phase, log | garithm/phase, and real |
| | part/ imaginary part | | |
| Amplitude Scale | 500 G to 500 G | | |
| Amplitude Resolution | Logarithm: 0.5 ndB | | |
| | Linear: 0.01 μ | | |
| Marker Number | 10 | | |

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| Mechanical Calibration Parts | UT-3009F, UT-3009M, Custom | |
|------------------------------|---|--|
| Calibration Items | Open, Short, Load, Through | |
| Port Output Power | 0 dBm to -40 dBm (Nom.) | |
| S21 Measurement | | |
| | S21, RBW=10 kHz, log mag, Average=50 | |
| Dynamic Range | 100 kHz to 20 MHz 65 dB (Nom.) | |
| (Maximum Output Power) | 20 MHz to 3 GHz 90 dB (Nom.) | |
| (Maximum Output Fower) | 3 GHz to 6 GHz 65 dB (Nom.) | |
| S11 Measurement | | |
| Direction after Calibrated | S11, logarithmic amplitude, Average=50 | |
| | >40 dB(Nom.) | |
| Trace Noise | 10 kHz RBW, Log mag, Average=50,>10MHz | |
| (Maximum output Power) | 0.1 dB rms(Nom.) | |
| | 10 kHz RBW, Phase,>10 MHz, Zero Span | |
| | 0.05 deg rms(Nom.) | |
| DTF Measurement | | |
| Trace Format | Linear amplitude, standing-wave ratio (SWR), logarithmic | |
| | amplitude(DTF), linear amplitude(DTF), return loss(DTF) | |
| Stop Distance | 1.5×10 ⁸ ×Velocity Factor×(Sweep point -1)/ Span | |
| FFT Filter | Gaussian, Flattop, Rectangular, Hanning, Hamming | |
| Velocity Factor | 0.1 to 1 | |
| | | |

Real-time Spectrum Analyzer

| Frequency and Time Accuracy | | |
|--|---|--|
| Real-time Analyzer | 10 MHz | |
| Bandwidth | 40 MHz (Option UTS3000A-B40) | |
| Min. Signal Duration for | Maximum Span, default window: Kaiser | |
| 100% POI at the Full-Scale Accuracy | 6.68 µs | |
| Detection Mode | Peak, negative peak, sample, and average | |
| Number of Traces | 12 | |
| RBW filter Type | Hanning, Blackman-harris, rectangle, flat top, Kaiser, Gaussian | |
| Display Trace | Normal, Density, Spectrogram, PvT, PvT Spectrum, PvT | |
| Display Trace | Spectrogram, Powergram Spectrogram | |
| | Provides 6 RBW options for each window, except the rectangle | |
| Resolution Bandwidth | window | |
| | Kaiser window | |

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| | Span | | Min. ban | dwidth | Max. bar | dwidth |
|---------------------------------------|------------|--------------|-------------|--------------|-----------|--------|
| | 40 MHz | | 101.2162 | | 3.2427 M | |
| | 25 MHz | | 63.2601 | | | |
| | | | | | 2.0361 M | |
| | 10 MHz | | 25.304 k | | 810.6667 | |
| | 1 MHz | | 2.5304 k | | 81.0667 | |
| | 100 kHz | | 253.0405 | 5 Hz | 8.1067 kl | Hz |
| Min. Acquisition Time | 50.684 μ | | | | | |
| FFT Rate | 146,253/s | (Nom.) | | | | |
| Number of Markers | 10 | | | | | |
| Amplitude Resolution | 0.01 dB | | | | | |
| Frequency Point | 799 | | | | | |
| Min. Signal Duration for 1 | 00% POI | at Differe | nt RBWs | | | |
| | Duration 1 | time (µs) | | | | |
| Span | RBW1 | RBW2 | RBW3 | RBW4 | RBW5 | RBW6 |
| 40 MHz | 29.57 | 14.79 | 7.56 | 6.68 | 6.68 | 6.68 |
| 25 MHz | 43.95 | 21.95 | 11.8 | 7.58 | 6.72 | 6.72 |
| 10 MHz | 76.8 | 38.36 | 20.23 | 11.8 | 7.58 | 6.72 |
| 1 MHz | 684.38 | 342.19 | 172.66 | 88.28 | 46.09 | 25 |
| Amplitude | | | | | | |
| Amplitude Flatness (Normal spectrum) | ± 0.6 dB | (Nom.) | | | | |
| SFDR | < -60 dBd | : (Typ.) | | | | |
| Probability Density Displa | | | | | | |
| Probability Range | 0 to 100% | (with a st | ep of 0.1%) | | | |
| Min. Span | 5 kHz | | | | | |
| Duration | 32 ms to | 10 s | | | | |
| Spectrogram | | | | | | |
| History Depth | 10,000 | | | | | |
| Dynamic Range Covered by Bitmap Color | 200 dB | | | | | |
| PVT | | | | | | |
| Min. Acquisition Time | 62.422 µs | ; | | | | |
| Max. Acquisition Time | 100 s | | | | | |
| Trigger | | | | | | |
| Trigger Source | Free run, | external tri | gger, powe | r (time), FM | IT | |
| Frequency Mask Templat | e Trigaer | (FMT) | | | | |

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| Trigger Delay | 0 s to 500 ms |
|--------------------|---|
| Mask Type | Upper, Lower, and Both |
| Trigger Resolution | 0.5 dB (Nom.) |
| Trigger Criteria | Enter, Leave, Inside, Outside, Enter-Leave, Leave-Enter |

Analog Demodulation Analyzer (Option)

| Demodulation | | |
|--------------------------|----------------------------|-------------------------------|
| Frequency Range | 2 MHz to 8.4 GHz | |
| Carrier Power Accuracy | ± 2 dB | |
| Input Power | -30 dBm to +20 dBm | Auto attenuation |
| Carrier Power Resolution | 0.01 dBm | |
| AM | | |
| Modulation Frequency | 20 Hz to 100 kHz | |
| | 1Hz (Nom.) | Modulation frequency<1 kHz |
| Accuracy | <0.1% modulation | Modulation frequency ≥ 1 kHz |
| | frequency (Nom.) | Modulation frequency > 1 kmz |
| Depth | 5 to 95% | |
| Accuracy | ± 4% (Nom.) | |
| FM | | |
| Modulation Frequency | 20 Hz to 100 kHz | |
| | 1Hz (Nom.) | Modulation frequency<1 kHz |
| Accuracy | <0.1% modulation | Modulation frequency ≥ 1 kHz |
| | frequency (Nom.) | Thousand requertey > 1 KHZ |
| Frequency offset | 1 kHz to 400 kHz | |
| Accuracy | ± 4% (Nom.) | |
| PM | | |
| Modulation Frequency | 20 Hz to 100 kHz | |
| Accuracy | 1 Hz (Nom.) | Modulation frequency<1 kHz |
| | <0.1% modulation frequency | Modulation frequency ≥ 1 kHz |
| | (Nom.) | Floudiation frequency > 1 kHz |
| Phase offset | 0.2 to 6.28 rad | |
| Accuracy | ± 4% (Nom.) | |

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Vector Signal Analyzer (Option)

| Measurement Function | |
|-------------------------|--|
| | ASK: 2ASK, 4ASK, 8ASK, and 16ASK |
| | FSK: 2FSK, 4FSK, 8FSK, and 16FSK |
| | MSK: Type1, Type2 |
| Modulation Type | PSK: BPSK, QPSK, OQPSK, and 8PSK |
| | BPSK, QPSK, 8BPSK; DQPSK, D8PSK, π/4-DQPSK, π/8-D8PSK, and |
| | OQPSK |
| | QAM: 16, 32, 64, 128, and 256 |
| Measurement Symbol | 10 to 4,096 |
| Length | |
| Symbol Point | 4, 6, 8, 10, 12, 14, 16, 20 |
| /Over-damping Rate | |
| Rate | 1k Sps to Analyzer Bandwidth / |
| Filter | |
| Measurement Filter Type | No Filter, RRC, Gaussian, EDGE, CDMA and Rectangular |
| Reference Filter Type | Raised Cosine, RRC, Gaussian, EDGE, CDMA, and Rectangular |
| Filter Length | 2 to 128 |
| Alpha/BT | 0.05 to 1 |
| Display | |
| | IQ measurement time domain, IQ measurement time |
| | IQ reference time domain, IQ reference frequency domain |
| Data | Symbol error statistics, error vector time domain, and error vector |
| | frequency domain |
| | Time domain, IQ amplitude error, and IQ phase error |
| | logarithmic amplitude, linear amplitude, real part, and imaginary part |
| | IQ diagram, constellation diagram, I (eye diagram), and Q (eye |
| Format | diagram) |
| | Phase diagram, Phase extension diagram, and phase tree-like |
| | diagram |
| Symbol Error Statistics | |
| | EVM (rms EVM, peak EVM), and Magnitude error |
| PSK/DPSK/MSK/QAM | Phase error, IQ offset, Carrier offset, and SNR Quadrature error |
| | Gain imbalance (not support for MSK) |
| ASK | ASK Error, ASK depth, and carrier offset |
| FSK | FSK Error, Magnitude error, FSK deviation, and carrier offset |

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I/Q Analyzer (Option)

| Frequency | | | | |
|--|----------------------|---------------------------------|--------------------------|--|
| Frequency Range | 50 Hz to 8.4 GHz | | | |
| Resolution Bandwi | dth (Spectrum Meas | urement) | | |
| Range | 1 Hz to 10 MHz | | | |
| Window shape | Flat top, Hanning, G | aussian, Blackman, Black | kman Harris | |
| Analyzer Bandwid | th | | | |
| Standard | 100 Hz to 10 MHz | | | |
| Option | 100 Hz to 40 MHz (| 100 Hz to 40 MHz (UTS3000A-B40) | | |
| Frequency Respon | se for Medium Frequ | uency (demodulation a | and FFT response related | |
| to the center frequ | uency, 20°C to 30°C |) | | |
| Center Frequency (GHz) | Span (MHz) | Max. error | RMS (Nom.) | |
| ≤ 3.0 | ≤ 10 | ± 0.4 dB | 0.03 dB | |
| Intermedium Frequency Phase Linear Degree (Average Phase Linearity Offset, Nom.) | | | | |
| Center Frequency (GHz) | Span (MHz) | Peak-to-peak | RMS (Nom.) | |
| ≤3.0 | ≤10 | 0.5° | 0.2° | |
| 3.0 < f≤7.5 | ≤10 | 0.5° | 0.4° | |
| Data Acquisition (standard 40 MHz intermediate frequency path) Time Recording | | | | |
| Length | | | | |
| IQ Analyzer | 8,000,000 IQ sampl | ing pairs | | |
| Sampling Rate | 102.4 MSa/s | | | |
| ADC Resolution | 14 bits | | | |

EMI (Option)

| EMI Resolution Bandwidth | | |
|---------------------------|--|--|
| Resolution | 200 Hz, 9 kHz, 120 kHz, and 1 MHz | |
| Bandwidth (-6dB) | ZOO HZ, 7 KHZ, IZO KHZ, AHQ I MHZ | |
| Resolution | | |
| Bandwidth | <5% (Nom.) | |
| Uncertainty | | |
| EMI Detector | | |
| EMI Detector | Peak, Negative, Quasi Peak, EMI Average, Average | |
| EMI Main Functions | | |

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| | EMI measurement standard: CISPR |
|----------------|---|
| | View: Scan table, Meter, Signal table |
| | Meter control |
| | Avg settings |
| | Limit: AS-NZS, Bell Core, DEF-STAN, DO-160, EN, FCC, GB9254, MIL-461, |
| Main Functions | VCCI and Custom |
| Main Functions | Signal table settings |
| | Scan table settings |
| | Scan Sequence: Scan, Search, Scan-Search-Meas, Scan-Search, |
| | Search-Meas, Measure |
| | Sig Detector |
| | Output port |

Advanced Measurement (Option)

| Power Measurement | | |
|---------------------------|---|--|
| Channel Power | Channel power, power spectral density | |
| Adjacent Channel Power | Main channel power, lower power/ power ratio, higher power/ | |
| (ACP) | power ratio | |
| Occupied Bandwidth | Occupied bandwidth, total power, transmit frequency error | |
| (OBW) | Occupied bandwidth, total power, transmit frequency error | |
| Time Domain Power | Zero span time integrated power | |
| Carrier Noise Ratio (CNR) | Carrier power, noise power, carrier noise ratio | |
| Non-Linear Measuremen | t | |
| Third-order Inter | Based on dual-tone peak search | |
| Modulation (TOI) | | |
| Harmonic Measurement | Max. harmonic 10 | |
| Spectrum Monitor | | |
| Spectrogram | | |

Interface and Display

| Common Interface | | |
|------------------------|---|--|
| RF Input (Front Panel) | 50 Ω , N-type female connector, (nom.) | |
| Tracking Generator | 50 Ω, N-type female connector, (nom.) | |
| (Front Panel) | 50 12, N-type Terriate Confrector, (norm.) | |

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| 10 MHz Reference Input | 10 MHz, $>$ 0 dBm, 50 Ω , BNC-type connector, (nom.) |
|---------------------------|--|
| 10 MHz Reference Output | 10 MHz, -5dBm to +10 dBm, 50 Ω , BNC-type connector, (nom.) |
| External Trigger Input | TTL, BNC-type connector |
| HDMI | HDMI 1.4 display port |
| USB to Host | USB-A |
| USB to Device | USB-B |
| LAN | LAN (VXI-11), 10/100/1000 Base, RJ-45 |
| Audio Interface | 3.5 mm |
| Remote Control | |
| Remote Control Interface | LAN, USB-TMC |
| | SCPI: USB-TMC, Socket, and VXI-11; |
| Remote Control Capability | Web Browser, Labview, and NI-AX; |
| | Device Manager (V2.5.0 and higher) |
| Display Screen | |
| Display Screen | 10.1-inch multi-touch HD screen |
| Display Resolution | 1280×800, RGB Vertical pixel |

General Specification

| Specification | | | |
|-------------------------|--|--|--|
| Power Voltage | 100 to 240 VAC (fluctuation:± 10%) | 100 to 120 VAC (fluctuation: ± 10%) | |
| Frequency | 50/60 Hz | 400 Hz | |
| Operational Environmen | nt | | |
| Tomporatura Panga | Operating: 0°C to +40°C | | |
| Temperature Range | Non-operating: -20°C to +60°C | | |
| Cooling method | Fan-forced cooling | | |
| Hereidie Deese | Operating: Below +35°C, ≤ 90% RH.; | | |
| Humidity Range | Non-operating: +35°C to +40°C, ≤ 60% RH. | | |
| Altitude | Operating: Below 3000 meters; | | |
| Attitude | Non-operating: Below 15, 000 meters | | |
| Pollution Degree | 2 | | |
| Operating Environment | Indoor | | |
| Machinery Specification | | | |
| Dimensions | 378 mm × 218 mm× 120 mm (W×H×D) | | |
| Weight | 4.96 kg | | |

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| Calibration Cycle | One year | | | |
|--|--|---|--|--|
| Regulation and Compliance | | | | |
| EMC | Compliance with EMC directives(2014/30/EU), Conform to or better than IEC 61326-1:2021/EN61326-1:2021, IEC 61326-2-1:2021/EN61326-2-1:2021 | | | |
| Conductive Disturbance | CISPR 11/EN 55011 | CLASS B group 1, 150kHz-30MHz | | |
| Radiation Disturbance | CISPR 11/EN 55011 | CLASS B group 1, 30MHz-1GHz | | |
| (ESD) Electrostatic Discharge (ESD) | IEC 61000-4-2/EN 61000-4-2 | ±4.0 kV (Contact), ±8.0 kV (air) | | |
| Radio Frequency Electromagnetic Field Immunity | IEC 61000-4-3/EN 61000-4-3 | 3 V/m (80 MHz to 1 GHz) ; 1 V/m (1.4 GHz to 6 GHz) | | |
| (EFT) Electrical Fast Transient burst (EFT) | IEC 61000-4-4/EN 61000-4-4 | ±1 kV (AC input port) | | |
| Surge | IEC 61000-4-5/EN 61000-4-5 | ±0.5 kV (Live line to zero line) ±1 kV (Fire/zero line to ground) | | |
| Immunity to RF Continuous conduction | IEC 61000-4-6/EN 61000-4-6 | 3 V, 0.15-80 MHz | | |
| Voltage dips and Short interruptions | IEC 61000-4-11/EN 61000-4-11 | Voltage dip: 0% UT during 0.5 cycle 0% UT during 1 cycle 70% UT during 25/30 cycles Short Interruption: 0% UT during 250/300 cycles | | |
| Safety Regulations | | | | |
| | EN 61010-1:2010+A1:2019 EN IEC61010-2-030:2021+A11:2021 UL 61010-1:2012 Ed.3+ R:19 Jul2019 UL 61010-2-030:2018 Ed.2 CSA C22.2#61010-1:2012 Ed.3+U1; U2; A1 | | | |
| | CSA C22.2#61010-2-030:2018 Ed.2 | | | |

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Accessories, Options and Warranty Period

| | Description | Order No. | |
|------------------------------------|---|--------------|--|
| Models | Signal Spectrum Analyzer, 9 kHz to 3.6 GHz | UTS3036A | |
| | Signal Spectrum Analyzer, 9 kHz to 6.0 GHz | UTS3060A | |
| | Signal Spectrum Analyzer, 9 kHz to 8.4 GHz | UTS3084A | |
| Standard | Power cable ×1 | | |
| Accessories | USB data cable ×1 | UT-D14 | |
| Options | | | |
| Options | Advanced Measurement | UTS3000A-AMK | |
| | EMI Measurement | UTS3000A-EMI | |
| | Analog Demodulation Analyzer | UTS3000A-AMA | |
| | Vector Signal Analyzer | UTS3000A-VSA | |
| | I/Q Analyzer | UTS3000A-I/Q | |
| Bandwidth Options | Analyzer Bandwidth B40 | UTS3000A-B40 | |
| Calibration Kit | 3.5mm SMA Female and 3.5mm SMA Male (Frequency Range: DC to 9 GHz) | UT-3009F/M | |
| | 3.5mm SMA Female (Frequency Range: DC to 9 GHz) | UT-3009F | |
| | 3.5mm SMA Male (Frequency Range: DC to 9 GHz) | UT-3009M | |
| UT-CK01 Accessories Kit | SMAJ-NJ-0.7M DC-6G Cable ×1 | UT-W02-6GHz | |
| | NJ-NJ-0.7M DC-6G Cable ×1 | UT-W01-6GHz | |
| | Adaptor SMA-N-KJ-T DC-6 GHz ×2 | UT-C01-6GHz | |
| | Adaptor N-BNC-JK DC-4 GHz ×2 | UT-C02-4GHz | |
| | Antennae 2400 MHz-2500 MHz ×2 | UTS-T01 | |
| | Antennae 824-960 MHz/1710-1990 MHz ×2 | UTS-T02 | |
| UTS-EMI01 Near field Probes Kit | 50Ω-SMA-SMB Cable ×1 | UT-W03 | |
| | Adaptor SMA-N-KJ-T DC-6 GHz ×1 | UT-C01 | |
| | Near field Probe, Frequency Range: 30 MHz to 3 GHz, | NFP-3G-P1 | |
| | Detection Range 10cm ×1 | | |
| | Near field Probe, Frequency Range: 30 MHz to 3 GHz, Detection Range 3cm ×1 | NFP-3G-P2 | |
| | Near field Probe, Frequency Range: 30 MHz to 2 GHz, Resolution 5mm ×1 | NFP-2G-P3 | |
| | Near field Probe, Frequency Range: 30 MHz to 3 GHz, Resolution 2mm ×1 | NFP-3G-P4 | |
| | 1/C3O(Q(IOH ZIIIII **I | | |

Note: For all main Products, Accessories, and Options, please order from your local UNI-T distributor.

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Options ordering and installation

Purchase Options: Based on your requirements, please purchase the specified function
 Options from Uni-t Sales Personnel and provide the serial number of the instrument that needs
 the Option installed.

- 2. **Receive certificate:** You will receive the license certificate based on the address provided in the order.
- Register and obtain license: Visit the Uni-t official website license activation session for registration. Use the license key and instrument serial number provided in the certificate to obtain the Option license code and license file.
- 4. **Install the Option:** Download the Option license file to the root directory of a USB storage device, and connect the USB storage device to the instrument. Once the USB storage device is recognized, the Option Install menu will be activated. Press this menu key to begin installing the Option.

Limited Warranty and Liability

UNI-T guarantees that the Instrument product is free from any defect in material and workmanship within three years from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination, or improper handling. If you need a warranty service within the warranty period, please contact your seller directly. UNI-T will not be responsible for any special, indirect, incidental, or subsequent damage or loss caused by using this device. For the probes and accessories, the warranty period is one year. Visit instrument.uni-trend.com for full warranty information.



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