

Features

- 250MSa/s sample rate, 16bit vertical resolution and 16Mpts waveform length
- Rise/fall time of Square: $\leq 4.2\text{ns}$
- Removable PA (option)
- Optional IOT interface
- High precision frequency counter
- 7" touch screen display



* without option PA



Preliminary Data

Specification

| Frequency | | |
|------------------------------------|----------------|--|
| Sine/Square | | 1 μ Hz~35MHz |
| Pulse | | 1 μ Hz-25MHz |
| Ramp | | 1 μ Hz-3MHz |
| PRBS | | 1kbps~60Mbps |
| Noise (-3dB) | | 100MHz bandwidth |
| Other | | 1 μ Hz~20MHz |
| Resolution | | 1 μ Hz or 12 digits |
| Accuracy | | $\pm(20\text{ppm} + 14\text{pHz})$ |
| Waveform | | |
| Type | | 165 kinds include: Sine, Square, Ramp, Pulse, Noise, DC, PRBS, user-defined Arbitrary waveform, user-defined harmonic, etc |
| Sample Rate | | 250MSa/s |
| Vertical Resolution | | 16 bits |
| Arbitrary | Sample Rate | 1 μ Sa/s~125MSa/s |
| | Length | 2-16Mpts |
| | Resolution | 16 bits |
| Square | Rise/Fall Time | $\leq 4.2\text{ns}$ |
| | Duty Cycle | 0.0001%~99.9999% |
| Pulse | Rise/Fall Time | $\geq 8\text{ns}$ |
| | Width | 13ns ~ (period - 13ns) |
| DC Offset (High-Z) | | |
| Range | | $\pm 10\text{Vpk(ac+dc)}$ |
| Resolution | | 1mVdc |
| Accuracy | | $\pm(\text{setting value} \times 1\% + \text{amplitude value} \times 0.5\% + 2\text{mV})$ |
| Sweep | | |
| Range | | 1 μ Hz ~ upper frequency limit |
| Type | | Linear, logarithmic |
| Time | | 1ms to 500s |
| Burst | | |
| Mode | | Triggered, Gated |
| Period | | 1 μ s to 600s |
| Count | | 1 to 100000000 cycles |
| Counter | | |
| Frequency Range | | 1mHz to 350MHz (DC Couple) 10Hz to 350MHz (AC Couple) |
| Resolution | | 8 digits/s |
| Period and Pulse Width Measurement | | 100ns to 20s |
| Duty Cycle Measurement | | 0.1% to 99.9% |

All Specifications are subject to change without prior notice.

| | |
|---------------------------|--|
| Amplitude (High-Z) | |
| Range | 2mVpp~20Vpp, frequency≤10MHz 2mVpp~10Vpp, frequency>10MHz |
| Resolution | 1mVpp or 4digits |
| Accuracy | ±(of settings value×1%+1mV), Sine 1kHz, ≥10mVpp, offset 0V |

| Modulation | | |
|---|----------------------|---|
| FM,AM,PM, PWM,Sum | Carrier Waveform | Sine, Square, Ramp (only pulse for PWM), etc. |
| | Modulating Waveform | Sine, Square, Ramp, etc. |
| | Modulating Frequency | 1mHz to 100kHz |
| FSK,4FSK,NFSK, PSK,4PSK,NPSK, ASK,OSK | Carrier Waveform | Sine, Square, Ramp, ect |
| | Hop Frequency | 1μHz -upper limits |
| | Hop Rate | 1mHz to 1MHz |

| | |
|-------------------------------|--|
| General Characteristic | |
| Power | AC 100~240V, 50/60Hz ±10% , AC 100~120V, 400Hz ±10% |
| Dimension & Weight | 226×200×125mm, Approx. 2.9kg |
| | 226×200×166mm, Approx. 3.3kg (if amplifier power is selected) |

Standard Accessories

| | |
|---------------------|---|
| Power Cord | 1 |
| BNC cable | 1 |
| CD(software+manual) | 1 |

Options

| | |
|-----------------|---|
| TCXO | ±1ppm accuracy, ±1ppm/year aging rate |
| Power Amplifier | 2 times power amplifier, Max output power 8W (8Ω) |
| IOT interface | Based on LoRa |

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