

XCAT-CAN

AF2010

Cable & Antenna Analyzer
Handheld Signal Generator



Doc Rev : r3.0
Product Version : AF2010
2026.01



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Introduction

The Ultimate Solution for Complex Mobile Fronthaul Maintenance and Troubleshooting
XCAT-CAN is a professional-grade, all-in-one solution optimized for managing and troubleshooting increasingly complex mobile fronthaul infrastructures. By integrating a Cable & Antenna Analyzer and a Signal Generator into a single, ultra-compact device, it redefines field efficiency. Designed for portability without compromising performance, XCAT-CAN supports critical measurements including VSWR, Return Loss, DTF, and Signal Generation (CW/Modulation). Its lightweight, ergonomic design ensures that field engineers can perform high-precision diagnostics anywhere, anytime. Experience a smarter measurement environment powered by an intuitive Android-based interface.

Capabilities and Functional Highlights

- VSWR (Voltage Standing Wave Ratio) Measurement
- Return Loss Measurement
- DTF (Distance To Fault) Measurement
- Signal Generator Function (CW, Modulation)
- OSL User Calibration
- Test & Report File Custom
- Data Capture & Window Viewer Edit
- Android Smart Phone & Tablet PC Application
- Screen Capture & Recoding
- Remote Control
- Base Station Cable & Antenna Analyzer
- Network equipment installation
- Field network maintenance service
- Instant measurement and analysis
- Wide frequency range
- Fast and highly accurate measurement
- Easy to operate and convenient to use
- Simple upgrade by S/W download
- No external power required (Rechargeable battery operated)
- Convenient Wireless Separation type (Wireless connection)

Instrument Highlights

- Frequency Range : 100MHz~6GHz
- SG Amplitude : 0dBm~-80dBm
- Accuracy : ± 1.5 dB (± 1.2 dB typical)
- BW 20MHz Waveform Output (Signal BW100MHz)
- Operation Temp : -10~55°C
- Compat Size : W88 x H22 x D226 (mm)
- Weight : 548g

- Battery Operating Time : 2 hours 50 minutes

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1. Signal Generator

Function

CW	Continuous Wave Output
Modulation	Waveform Output
Band Width	20MHz
Waveform Extension	20MHz x 5 (Signal only 100MHz)

Frequency

Frequency Range	100MHz~6GHz
Frequency Resolution	0.1kHz

Amplitude

Amplitude Accuracy	$\pm 1.2\text{dB}$ ($\pm 0.7\text{dB}$ typical) : 20~30°C $\pm 1.5\text{dB}$ ($\pm 1.0\text{dB}$ typical) : -10~55°C
Amplitude Range	0dBm ~ -80dBm
Amplitude Resolution	0.1dB

SSB Phase Noise

SSB Phase Noise	@3GHz / offset 10kHz : -95dBc/Hz (-99dBc/Hz .Typ) @3GHz offset 100kHz : -98dBc/Hz (-100dBc/Hz .Typ) @3GHz offset 1MHz : -110dBc/Hz (-115dBc/Hz .Typ)
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Second Harmonic

Harmonic	100MHz~500MHz : $\leq -5\text{dBc}$ 700MHz~4700MHz : $\leq -30\text{dBc}$ 4700MHz~4900MHz : $\leq -25\text{dBc}$ 4900MHz~6GHz : $\leq -30\text{dBc}$
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Reference Accuracy

Frequency Accuracy	± 1 ppm (Initial accuracy at 25°C $\pm 1^\circ\text{C}$, $V_c=1.5\text{V}$)
Freq stability over temperature	± 0.28 ppm
Long term stability, at 25°C	± 2.5 ppm 20 years (10MHz after 30 days of operation)

2. VSWR & Return Loss Measurement

Function

Measure Type	VSWR / Return Loss
Setup Parameter	Frequency, Start Frequency, Stop Frequency, Span, Full Span, Last Span, Auto Scale, Ref. Level, Scale/Div, Offset, Sweep Continue, Sweep Single, Sweep Once, Marker(16), Peak Marker, Line State, Alarm State

Frequency

Frequency Range	100MHz~6GHz
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VSWR Spec

Measurement Range	1~65
Resolution	0.01

Return Loss Spec

Measurement Range	0~60dB
Resolution	0.01dB

3. DTF (Distance-to-Fa Measurement

Function

Measure Type	VSWR / Return Loss
Setup Parameter	Cable Type, Frequency, Start Frequency, Stop Frequency, Span, Full Span, Last Span, Auto Scale, Ref. Level, Scale/Div, Offset, Sweep Continue, Sweep Single, Sweep Once, Marker(16), Peak Marker, Line State, Alarm State

Frequency

Frequency Range	100MHz~6GHz
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DTF (Distance-to Fault) Spec

Measurement Range (Meter)	0~500m
Resolution (Meter)	$(1.5 \times 10^8 \times VP) / (F2 - F1)$
Return Loss Range	0~60dB
VSWR Range	1~65

4. General Specifications

Setup Parameters

Data and Time	Mobile device time
Languages	English/Korea (Mobile Device Language)
Preset	Preset, Mode Preset, Band Preset
System information	Device/Mobile information
Version update	Download Application /Firmware OTA Update
SSID setting	Device SSID setting. (Android Hotspot ID & Bluetooth)
User guide	Android Hotspot setting guide
System check	Self-test(FPGA, RF board, temperature sensor, calibration data, memory)
Server	Cloud Server address set / log in. (option)
Recording quality	Screen recording quality Low/Medium/High
User setting	Save/Recall User Set (Mode/Measurement/Parameter/etc.)
Screen	Full screen, screen lock/unlock, capture/recording
Graph setting	Spectrum width/ Set transparency of Graph
Remote Control	Team Viewer-QS 3 rd party App
SCPI Control	Local Mode, Wi-Fi, Bluetooth

Connectors

RF In	N Type, Max Input 1W (+30dBm)
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Battery

Type	Li-ion battery pack
Voltage	3.80V
Capacity	3.81Ah (14.21Wh)
Operating Time	2 hours 50 minutes (Typical) / VSWR Mode
Charging Time	2 hours 50 minutes (Typical)

Please note that battery life may vary depending on usage environment (use scenario, battery condition, period of use, etc.) and product settings.

Environmental

Operating Temperature Range	DC power(except battery) : -10 to +55 ° C
Charging Temperature Range	DC power (battery charging): 5 to +55 ° C
Storage Temperature Range	-20 ° C ~ 60 ° C

Port VSWR

RF IN	1.95
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Size and Weight

Size	W88 x H22 x D226 mm,
Weight	548g (including Battery)

Warranty

Standard one-year warranty (1 year)

"Annual Maintenance Cost" (AMC) can be extended upon mutual agreement

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