NOISECOM

# UFX-BER

The Noisecom UFX-BER series consists of precision Eb/No (Energy per bit to Noise power spectral density ratio) generators. These highly automated instruments provide accurate, repeatable control of carrier-to-noise (C/N), C/No, and C/I ratios, making them essential for bit error rate (BER) testing in satellite, wireless, and military communications.

## SPECIFICATIONS

### General

| | |
|---|---|
| Interfaces | GPIB (IEEE-488.2), RS-232 |
| Display | Front panel LCD |

### Physical

| | |
|---|---|
| Power Supply | 115 VAC (60 Hz) or 230 VAC (50 Hz), switchable |
| Operating Temperature | 0°C to 50°C °C |
| Dimensions (W×H×D) | 438 mm x 133 mm x 330 mm mm |

### RF & Noise Performance

| | |
|---|---|
| Eb/No Range | -10 to +40 dB |
| C/N Range | -10 to +40 dB |
| Eb/No Accuracy | ±0.2 dB RSS |
| Impedance | 50 Ohms (nominal) |
| Operating Modes | Eb/No, C/N, C/No, C/I, Noise Only, Carrier Only |
| Signal Path Gain | 0 dB nominal |

### Input & Output Interfaces

| | |
|---|---|
| RF Output Connector (below 1 GHz) | BNC female |
| RF Output Connector (above 1 GHz) | SMA female |

### Options & Accessories

| | |
|---|---|
| UFX-BER-70 Frequency Range | 50 to 90 MHz |
| UFX-BER-140 Frequency Range | 100 to 180 MHz |
| UFX-BER-L Frequency Range | 950 to 1450 MHz |

### Physical & Mechanical

| | |
|---|---|
| Form Factor | Benchtop or 19-inch rackmount |
| Rack Height | 3U |

### Performance

| | |
|---|---|
| Eb/No Resolution | 0.015 dB |
| Carrier Input Level Range | -30 dBm to 0 dBm (standard) |
| Bit Rate Entry Range | 1 bps to 999.999 Mbps |

### Environmental

| | |
|---|---|
| Storage Temperature | -40°C to +85°C |
| Operating Humidity | Up to 95% RH (non-condensing) |

### Noise Performance

| | |
|---|---|
| Noise Type | Additive White Gaussian Noise (AWGN) |
| Crest Factor | 5:1 (14 dB) minimum |

## TECHNOLOGY

Eb/No Carrier-to-Noise Generation

## APPLICATIONS

BER Testing, Satellite Communication Testing, Receiver Sensitivity Testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.