FieldFox Handheld Analyzers

Key Spec Comparisons among D-, C-, B-, and A-Series

Key Specifications	N99xxD	N9912C	N99xxC (other than N9912C)	N99xxB	N99xxA
Spectrum Analysis*					
Frequency range	9 kHz up to 54 GHz	3 kHz to 4, 6.5, or 10 GHz	3 kHz up to 10 GHz	9 kHz up to 54 GHz	5 kHz up to 50 GHz
Best DANL@1 GHz	-164/-163 dBm/Hz	-165 dBm/Hz	-165 dBm/Hz	-163 dBm/Hz	-154/-158 dBm/Hz
Best TOI	+11/+16.5 dBm	+10.5 dBm	+10.5 dBm	+15/+22 dBm	+21/+16 dBm
Phase noise (at 1 GHz CF, 10 kHz offset)	-112/-111 dBc/Hz	-112 dBc/Hz	-112 dBc/Hz	-117/-113 dBc/Hz	-111 dBc/Hz
Amplitude accuracy (no warm-up required)	±0.10/±0.15 dB	±0.15 dB	±0.15 dB	±0.2/±0.18 dB	±0.5 dB
Input attenuator range	40 dB	40 dB	40 dB	40 dB	30 dB
Max Real-time bandwidth (BW)	120 MHz	40 MHz	120MHz	120 MHz	10 MHz
Max IQ streaming BW	120 MHz	1 MHz	1 MHz	1 MHz	1 MHz
Vector Network Analysis**					
Frequency range	30/300 kHz up to 54 GHz	3 kHz to 4, 6.5, or 10 GHz	3 kHz up to 10 GHz	30/300 kHz up to 54 GHz	30/300 kHz up to 50 GHz
Output power	+9/+7 dBm	+8 dBm	+8 dBm	+9 dBm	+1 dBm
Dynamic range	118/115 dB	118 dB	118dB	117/119 dB	100/110 dB
Calibration	CalReady, Mech, eCal	CalReady, Mech, eCal	CalReady, Mech, eCal	CalReady, Mech, eCal	CalReady, Mech, eCal, QuickCal
General					
Max freq (up to 10 GHz) upgradability	NA	Yes	NA	NA	NA
GNSS/GPS receiver	GNSS/GPS	GNSS/GPS	GNSS/GPS	GNSS/GPS	GPS only
Operating system	Linux	Microsoft CE	Microsoft CE	Microsoft CE	Microsoft CE
Touch screen	For file management	NA	NA	NA	NA
Battery operating time	4 hours	4 hours	4 hours	4 hours	3.5 hours
Environmental	MIL-PRE-28800F and IP53	MIL-PRE-28800F and IP53	MIL-PRE-28800F and IP53	MIL-PRE-28800F and IP53	MIL-PRE-28800F and IP53
Weight (nominal)	8 lb (3.6 kg)	7.35 lb (3.34 kg)	7.35 lb (3.34 kg)	7.35 lb (3.34 kg)	6.6 lb (3 kg)/7.1 lb (3.2 kg)

*: For N9912C Option SA4, SA6 or SAX is required; for N991x/5xD, N991xC, N991x/5xB, or N991x/5xA Option 233 is required
**: For N9912C with NA4, NA6, or NAX, or N991xC, N991x/5xD, N991x/5xB, N991x/5xA only

Note: When a specification differs between the lower-frequency models (N991x/N993x) and the higher-frequency models (N995x/N996x), the values are shown in the format of "xxx/yyy", where xxx applies to the N991x/N993x models and yyy applies to the N995x/N996x models.