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JDSU DSAM-900B

w/ Deep Interleave Product Specifications

Frequency Range

Accuracy Tuning resolution	±1
Channel bandwidth	Mode

4 to 1,000 MHz ±10 ppm at 77°F (25°C) Analog 10 KHz Digital 50 KHz Models ending in A, 8 MHz Models ending in B, 6 MHz

Level measurement, analog

Signal types	CW, video and audio
	(NTSC, PAL, and SECAM)
Range	–40 to +60 dBmV
Resolution	0.1 dB
Resolution bandwidth	280 KHz
Accuracy ₍₂₎	±1.5 dB typical @ 25°C
Carrier-to-Noise	Input @ ≥ 6 dBmV
	30 to 45 dB ± 2 dB
	45 to 48 dB ± 3 dB

Level measurement, digital

Modulation types	QPR, QPSK, QAM
	(DVB/ACTS)
Range(1)	-40 to +60 dBmV
Resolution	0.1 dB
Accuracy(2)	±2.0 dB typical @ 25°C

Downstream QAM demodulation

Modulation type	64 and	I 256 QAM, ITU-T J.83
	Annex	A, B or C (selectable)
Input range (lock r	ange) 🔞	–15 to +50 dBmV
		from 55 to 1000 MHz
BER(4)	Pre- and	Post-FEC 10-4 to 10-9
MER(5)	Range	e 64 QAM: 21 to 35 dB
	A	ccuracy ±2 dB (typical)
	Range	256 QAM: 28 to 35 dB
	A	ccuracy ±2 dB (typical)
EVM(5)	Range	64 QAM: 1.2% to 5.8%
	Accuracy	±0.5% (1.2% to 2.0%)
		±1.0% (2.1% to 4.0%)
		±1.4% (4.1% to 5.8%)
	Range 2	56 QAM: 1.1% to 2.4%
	-	Accuracy ±0.6%

Symbol rate Annex A, 5.057 to 6.952 Msps (64 and 256 QAM) Annex B, 5.057 Msps (64 QAM) and 5.361 Msps (256 QAM) Annex C, 5.274 Msps (64 QAM) and 5.361 Msps (256 QAM)

lest Point Compensation (user editable)	
Forward Path TPC	Max 100 dB Total
	nal Loss (dB): 0 to 50
Forward Pro	be Loss (dB): 0 to 50
Reverse Path TPC ₍₆₎	Max 55 dB Total
Reverse Inter	nal Loss (dB): 0 to 55
Reverse Exter	nal Loss (dB): 0 to 55
Reverse Pro	be Loss (dB): 0 to 55
Reverse Telemetry Level (dBi	mV) 0 to 55
Reverse Sweep Insertion Lev	el (dBmV) 0 to 55

Interfaces

RF	75 ohm, F81 or BNC option
Max. sustai	ned voltage 100 VAC, 140 VDC
RS232	Standard via DB9 on charger
	module or optional direct cable
Printer compatibility	Epson and Citizen
Ethernet	RJ45, 10 base T,
	TCP/IP and UDP supported
USB	v1.1 host mode, 150 mA
maximum	slave (future firmware release)

Standards compliance

Shock and vibration	IEC 60068
Drop	EC 61010
Handle stress	IEC 61010
Water resistance	MIL-STD-810E
Safety – emissions	EN 55022
Safety – immunity	EN 61000

General Display

320 x 240, grayscale Selectable back light

Language support (user interface and help system) English in all models No-charge second language option of Spanish, French, German, Japanese, Polish or Chinese

Dimensions

Weight

Power

Model 900B: 4.75 x 9.75 x 3.25 in (12 x 25 x 8.25 cm)

Model 900B: 3 lb 4 oz (1.5 kg)

Storage and operating temperature range 0 to 120°F; -20 to +50°C

Li-Ion removable pack, Standard

Super Capacity Li-Ion removable pack, Optional Battery life

Standard Li-Ion, 4 hours (typical) Super Capacity Li-Ion, 8 hours (typical) Charge time

Standard Li-Ion, 6 hours (typical) Super Capacity Li-Ion, 12 hours (typical) Power supply input 90-264 VAC, 47-63 Hz

Upstream spectrum (ingress scan)

Frequency range	Models ending in B,
	4 to 45 MHz
Sweep rate	Less than 2 seconds
Display scaling and range	e
5 and 10 dB/d	ivision; 6 vertical divisions
Resolution bandwidth	280 kHz
Range(1)	-40 to 60 dBmV (typical)

Downstream spectrum (forward scan)

Frequency Range	40 to 1000 MHz
Sweep rate	Less than 2.5 seconds
Display scaling and range	
5 and 10 dB/div	vision; 6 vertical divisions
Resolution bandwidth	280 kHz
Dwell	1 ms
Span	50MHz or 10MHz zoom
Range(1)	–35 to 60 dBmV (typical)

Constellation

Modulation type	64 and 256 QAM
Zoom capability	Yes

Return QAM Generator (Option) Frequency Range

Models ending in B: 5 to 55 MHz

Signal Level Range	8 to 58 dBmV
Signal Modulation	CW or 16 QAM
Symbol Rates (Msps)	1.28, 2.56, 3.84, 5.12

Total integrated power, detectable range
Accuracy for levels between -20 to 55 dBmV
Additional uncertainty ±0.5 dB across -20°C to 50°C
Additional uncertainty ±1.0 dB from 4 MHz to 15 MHz
Total integrated power, At 64 QAM
(4)DSAM-900B with Deep Interleave can support up to (I,J) = (128, 4) interleave for ITU-T J.83 Annex B
(5) Accuracy and behavior from 100 MHz to 1000 MHz for levels between -5 to 50 dBmV (typical)
(6) The sum of the Internal, External and Probe Losses and the Telemetry level must be greater than or equal to 10.0 and less than or equal to 55.0