

The **DSG1** is a dual-band head-end digital signal generator that inserts a low-level test signal between QAMs, without causing any interference or MER degradation. The test signals enter the operator's plant and are detected by our field meters (DRV3, DRV3 Lite, DRV4). This allows the operator to make informed decisions regarding network reliability and performance.

HIGHLIGHTS

Cost-effective dual-band digital signal generator

Frequency-agile mid-band (118-140 MHz) and LTE-band (572-960 MHz)

Digital, QAM, DOCSIS 3.1, OFDM compatible

Remote or local configuration – Alarm notification

Fine-tuning resolution



SPECIFICATIONS

DSG1

ELECTRICAL	Details
Modulator type	Dual-band digital signal modulator
Tuning resolution	100 Hz
Frequency range 1 of 2	Agile from 118 to 140 MHz (mid-band)
Frequency range 2 of 2	Agile from 572 to 960 MHz (LTE-band)
Frequency stability	±500 Hz (mid-band) ±2.5 KHz (LTE-band)
Modulated signal	10 to 110 Hz AM tag 3,500 to 7,000 Hz DSB-SC tag
Output level from each RF output	+10 to 50 dBmV
Status display	Through an LCD on front panel
Power	120 VAC, 0.5A (15 W) fully loaded
Setup	Through CPAT FLEX interface
Communication port	10/100 Base-T Ethernet
Operating temperature	-20° to +60° C / -4° to + 140° F
PHYSICAL	Details
Dimensions [H x W x D]	IRU chassis 4.4 cm x 21 cm x 33 cm / 1.75" x 8" x 13"
Weight	2 kg / 4.4 lbs

ORDERING INFO	P/N
DSG1 - Head-end digital signal generator	150-00030-100
RELATED ITEMS	P/N
ARD4 - Autonomous recording device	150-00020-100
DRV4 - Vehicle-based digital leakage receiver	150-00035-100
DRV3 - Portable digital leakage receiver	150-00031-752
DRV3 Lite - <i>Lite</i> digital leakage receiver	150-00036-100

* Specifications subject to change without prior notice.



TECHNICAL SUPPORT TEAM

T + 1-888-495-6577 F + 1-514-495-4191 cpat@effigis.com