

S-DMB Test & Measurement

S-DMB Signal Generator – SMG1000

S-DMB TS Analyzer – DMA100S



S-DMB Signal Generator – SMG1000



Main Features & H/W Specification

H/W Specification

- RF Frequency : 2.6425 GHz
- RF Level : 0 dBm ~ -110 dBm (1.0 dB Step)
- RF Tolerance : ± 1.5 dB
- Modulation Type : DS-CDM / QPSK
- Impedance : 50 Ohm
- Output Terminal : SMA Type Female
- Symbol Rate : 18.432 MHz
- Convolution Encoder : 1/2
- Error Correction : RS(204, 188)
- Interleave : 12 Cycle Convolution
- Walsh Code CH : 32 CH
- Touch Screen
- O/S : Windows XP
- Memory : 1 GB
- Support Serial / GPIB Interface

Features

- Adapt RF Modulator verified in the field of real S-DMB
- Offer User-Friendly UI
- Real-time TV / Radio (TU Media Service applied)
- Changeable CH Pattern
- Support to change Service about TV / Radio CH
- Support RF Power Level Control
- Display RF & CDM Generator Status
- A/V Decoding Viewer
- Load & Save several Patterns per CH
- Transmit TDM file

Operating specification

Voltage :	AC 100 ~ 240V, 50/60Hz
Operating temperature :	10 to 40 degree
Operating humidity :	45 ~ 85% RH
Guaranteed temperature:	15 to 35 degree
Guaranteed humidity :	45 ~ 85% RH
Dimensions :	519.7(W) x 435(D) x 231.8(H)mm
Weight :	About 17kg

Ordering Information

Base Model	Description
SMG1000	SMG1000 S/W + DTV400 Frame + CDM Generator

Options	Description	Notes
Option T	T-201 T-DMB/DAB Modulator & Up-converter Module * Selectivity Test & Multi Modulator & Multi RF	
Option B	B-101 ASI Out Module	* B-100 options after purchasing, it'll cost additional charges and delivery terms will be within 4 weeks.
	B-102 SPI Out Module	
	B-201 AWGN Module (-10~+30dB)	
	B-202 Fading Module (Future support)	
	B-203 GPIB Module	
	B-100 Option Upgrade Service	



S-DMB TS Analyzer – DMA100S



Main Features

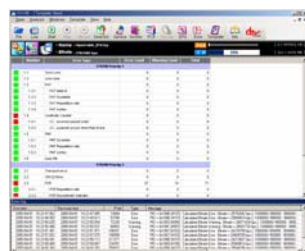
- S-Band DMB Standard (system E)
 - Video : AVC (Advanced Video Coding), H.264 / MPEG-4 part 10, ISO/IEC 14496-10
 - Audio : AAC (Advanced Audio Coding)+SBR (HE-AAC), ISO/IEC 13818-7
 - system : MPEG-2 TS, ARIB STD B10
- Real-time (Serial / SPI input) & Deferred-Time DMB TS Analysis
- MPEG TS Error Generation (ETR290 First Priority Error, Second Priority Error, Third Priority Error)
- A/V Demuxing & Decoding (H.264/HE-AAC)
- MPEG2 (ITU-T H.222.0) : Tables, PCR Analysis, Packet Analysis
- PSI/SI Analysis
- PES Analysis (PTS, STD)
- PCR Jitter Analysis with Graphs
- STD Buffer Analysis
- Real-Time Error Monitoring (TR 101 290 Level I II III)
- Bit rate and repetition rate display of video/audio & all PIDs
- Automatic Version Tracing
- Tables : PAT, PMT, TSMT, CAT, SDT (actual, other), NIT (actual, other), BIT, BAT, EIT (actual P/F, other P/F, actual schedule, other schedule), TOT
- User defined Tables



A/V Decoding



Overall Service & Packet Analysis



ETR290 (TR101290)
Error Monitoring



PCR/PTS Jitter Analysis

Base Model	Description
DMA100S	DMA100S S/W + Portable Frame



Frames (User Select)		
Type	Specification	Model
Standard Frame 1	- Display : 10.4" LCD with touch screen (1024X768) - HDD : 160G or higher - OS: Windows XP Professional - ODD: DVD Rom & CD RW Combo - Dimension : 450(W) X433(D)X230(H) mm - Ethernet, USB 2.0 * CE, FCC marked	
Portable Frame	- Display : 12.1~15.1 inch TFT LCD Front Panel (800x600~1024x768) - HDD : 160GB ~ 400GB Max. - OS: MS Windows 2000 or XP - ODD: DVD-RW COMBO (DVD Recorder Optional) - Dimension : 400(W)X291(D)X213(H) mm / 15.7"x11.4"x8.3" - Ethernet, USB 2.0 * CE, FCC, UL, CCC marked	
Super Portable Frame	- Display : 12.1inch X GA LCD (1024X768 : Standard) 14.1inch X GA LCD (1024X768 : Optional) - HDD : 80GB ~120GB - ODD: DVD-RW COMBO (DVD Recorder Optional) - OS : Windows XP 12-32VDC car adapter - Expansion unit W/2*PCI (3/4 size) - Dimension : 310(W)x255(D)x70(H) mm / 12.2"x10"x2.8" * CE, FCC, UL, CCC marked	
Standard Frame 2	- Display : 6.4" TFT LCD Front Panel (640X480) with touch screen - HDD : 80GB - OS : Windows XP Pro - Ethernet, USB2.0 - Dimension : 377(W)x360(D)x162(H)mm	
Handheld Frame	- Display : 10.4" TFT LCD Front Panel (1024X768) with Touch Screen - HDD : 40GB~100GB - OS : Windows XP Pro - Ethernet, USB2.0 - Dimension : 11.7'(W)x9.4'(D)x1.7'(H)	
Ultra Frame	- Large LCD with Touch Screen - Pentium 4, 3.0G Embedded OS - Memory 1G / HDD200G - DVD Rom / CD RW Combo	

