

LG 38SER05

CATV MODULATOR

LG 38SER05 is an add-in software that adds CATV (DVB-C/J.83A, J.83B, and J.83C) modulation functionality to the LG 3810.

FEATURES

- This software enables the LG 3810 to modulate signals as outlined in the DVB-C/J.83A, J.83B, and J.83C standards.

SPECIFICATIONS

Transmission Encoder

Broadcast System

Cable Television Broadcast:

DVB-C/J.83A(DVB EN300429/
ITU-T J.83 Annex A)
J.83B (ITU-T J.83 Annex B)
J.83C (ITU-T J.83 Annex C)

Carrier Modulation

DVB-C/J.83A: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
J.83B: 64QAM, 256QAM
J.83C: 64QAM

Symbol Rate

DVB-C/J.83A: 1.00 to 8.00 Msps (*1)
J.83B: 5.00 to 6.00 Msps
Default 64QAM: 5.057 Msps
256QAM: 5.361 Msps
J.83C: 5.00 M to 6.00 Msps
Default 5.274 Msps

*1: The specifications are guaranteed from 6.40 to 6.96 Msps.

RF Signal Generator

Frequency

Range: 30 to 960 MHz

Channels

Standard	Table	CATV Channel	VHF, UHF	Frequency
DVB-C/ J.83A	Europe	Channels S1 to S41	Channels 2 to 69	Set directly
J.83B	USA STD	Channels C2 to C135	Channels 2 to 83	
	USA IRC	Channels C1 to C135		
	USA HRC	Channels C1 to C135		
J.83C	Japan	Channels C13 to C63	Channels 1 to 62	
	Japan	Channels C13 to C63		

Output

Range: -110.0 to +13.0 dBm (50 Ω termination)
-63.0 to +60.0 dBmV (50 Ω termination)
-3.0 to +120.0 dBμV (50 Ω termination)

Internal Signal

Still-Image Pattern: Colorbar, ramp, monoscope (*2)
PSI/SI information: Representative terrestrial broadcast values are stored for the NIT, SDT, BIT, and PMT of each specification.

Still-Image Format²

DVB-C/J.83A: 720×576i, 1920×1080i
J.83B: 1920×1080i, 1280×720p, 704×480p, 704×480i (16:9), 704×480i (4:3)
J.83C: 1920×1080i, 1440×1080i, 720×480i (16:9), 720×480i (4:3)
Audio: 1 kHz (LR)/400 kHz (LR)/1 kHz (L) + 400 kHz (R)

*2: The still image patterns and formats may be changed.
The LG 3810 does not have a 1440×1080i (J.83C) monoscope pattern.

Environmental Conditions

Same as the LG 3810

Contents

License key 1
USB memory device (with sample TS) .. 1
Instruction manual 1

Licenses

You can only use this add-in software on one LG 3810.
You cannot install it on multiple LG 3810s.

Sample TS

This product comes with a USB memory device that contains original sample TSs for checking the LG 3810's operations. The sample TSs that are included are listed below.

DVB-C sample TS

J.83B sample TS

J.83C sample TS