NDS3343D

4 in 1 QAM Modulator

Version 1

Version 2

Outline

NDS3343D is a high performance and cost-effective mux-scrambling QAM modulator designed by Dexin. It has multiple input ports optional. After multiplexing, scrambling and QAM modulating process, then it gives 4 RF output. To meet customers' various requirements, this device is also equipped with IP port to output 4 MPTS over UDP. Its pluggable structure design greatly facilitates the change of modules (demodulator) as needed.

The four CAMs/CIs (Optional) accompanied and BISS modules can descramble the programs input from 4 Tuner inputs. Its pluggable structure design greatly facilitates the change of modules (demodulator) as needed. NDS3343D is also characterized with high integrated level, high performance and low cost. This is very adaptable to newly generation CATV broadcasting system.

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Key Features

- **Multiple Input ports optional:**

  8 DVB-C/S/S2 FTA Tuner + 6 ASI input ports+256 IP input (Version 1)

  4 DVB-C/S/S2 Tuner with CAM+6 ASI input ports (Version 2)
- **Support 4 channels multiplexing+4 channels scrambling+4 channels QAM modulating**
- **Fully support DVB-C (EN300 429) and ITU-T J.83A/B/C**
- **Fully support DVB general scrambling system description ETR289, simulcrypt standard ETSI 101 197 and ETSI 103 197**
- **Support accurate PCR adjusting**
- **Support PSI/SI editing and inserting**
- **Excellent RF output performance index, MER≥40db**
- **Support 4*MPTS output over UDP**
- **4 CAM decrypt multiple programs from 4 Tuner input (Optional)**
- **Support BISS descrambling(only for Version 2)**
- **Support LCD display and keyboard**
- **Support Web management, Updates via web and USB**

Specifications

<table>
<tr><td rowspan="2">Input</td><td colspan="3">8 DVB-C/S/S2 FTA Tuner + 6 ASI input+256 IP input ------Version 1</td></tr>
<tr><td colspan="3">4 DVB-C/S/S2 Tuner with CAM + 6 ASI -------Version 2</td></tr>
<tr><td rowspan="10">Tuner Section</td><td rowspan="3">DVB-C</td><td>Standard</td><td>J.83A(DVB-C), J.83B, J.83C</td></tr>
<tr><td>Input Frequency</td><td>30MHz-1000Mhz</td></tr>
<tr><td>Constellation</td><td>16/32/64/128/256 QAM</td></tr>
<tr><td rowspan="4">DVB-S</td><td>Input Frequency</td><td>950-2150MHz</td></tr>
<tr><td>Symbol rate</td><td>2-45Msps</td></tr>
<tr><td>Signal Strength</td><td>-65~-25dBm</td></tr>
<tr><td>FEC Demodulation</td><td>1/2, 2/3, 3/4, 5/6, 7/8 QPSK</td></tr>
<tr><td rowspan="4">DVB-S2</td><td>Input Frequency</td><td>950-2150MHz</td></tr>
<tr><td>Symbol rate</td><td>QPSK 1~45Mbauds
8PSK 2~30Mbauds</td></tr>
<tr><td>Code rate</td><td>1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10</td></tr>
<tr><td>Demodulation Mode</td><td>QPSK, 8PSK</td></tr>
<tr><td>Multiplexing</td><td>Maximum PID Remapping</td><td colspan="2">128per input channel</td></tr>
</table>

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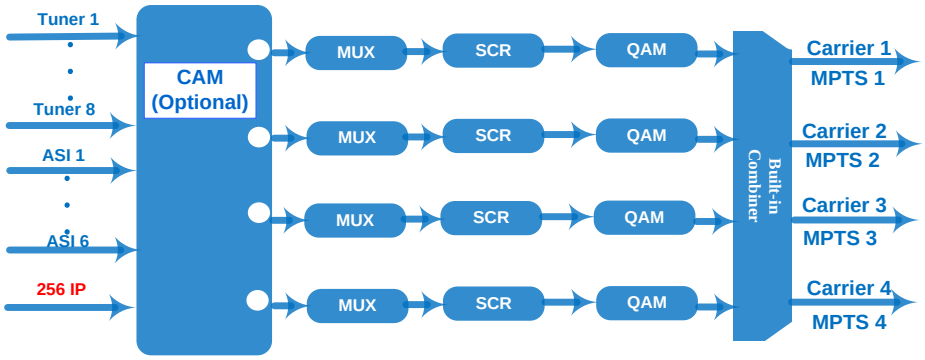
	Function	PID remapping (automatically or manually)		
		Accurate PCR adjusting		
		Generate PSI/SI table automatically		
Scrambling	Maximum simulcrypt CA	4		
	Standard	ETSI 101 197, ETSI 103 197		
	Connection	Local/remote connection		
Modulation	QAM Channel	4		
	Standard	EN300 429/ITU-T J.83A/B/C		
	MER	≥40db		
	RF frequency	30~999MHz, 1KHz step		
	RF output level	-10~0dbm,0.1db step ------Version 1 -20~0dbm,0.1db step ------Version 2		
	Symbol Rate	5.0Msps~9.0Msps, 1ksps stepping		
		J.83A	J.83B	J.83C
	Constellation	16/32/64/128/256QAM	64/256 QAM	64/256 QAM
	Bandwidth	8M	6M	6M
System	Local interface	LCD + control buttons		
	Remote management	Web NMS		
	Stream Out	4*MPTS over UDP out (RJ45, 1000M, Unicast/Multicast)		
	Language	English and Chinese		
	Software Upgrading	Web and USB		
General	Dimension (W*D*H)	482mm×300mm×44.5mm		
	Temperature	0~45℃(Operation) ; -20~80℃(Storage)		
	Power	AC 100V±1050/60Hz; AC 220V±10%, 50/60HZ		

Working Principle



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