

Product Datasheet

SKD7200N Series Digital Signals to IP Integration Platform



Product Series	Description
SKD72XXN	Product Name: Digital Signals to IP Integration Platform Digital TV Input: Supports optional HDMI, DVBC (J.83A), DVBC (J.83B), DVBS/S2, ATSC (8VSB), DTMB, DVBT/T2, ISDB-T. IP Input/Output: 8 Gigabit IP signal Input/Output ports, supports MPTS and SPTS stream analysis, supports RTSP/HLS/SRT/RTMP/HTTP/UDP/RTP, IGMPv2/v3 protocols.

◆ Product Overview

In 2024, through relentless effort, our company successfully developed the SKD72XXN Series Digital TV Headend Integration Platform, marking a significant breakthrough in the digital TV technology field. This platform consists of 1 server motherboard with 8-port input/output protocol conversion routing capabilities and 4 highly customizable functional modules, providing users with an unprecedented digital TV experience.

These 4 customizable functional modules include the HDMI HD encoding module, as well as various digital TV reception and modulation modules supporting standards such as J.83A, J.83B, DVBS/S2, 8VSB, DTMB, DVBT/T2, ISDB-T, etc.

The 8-port input/output protocol conversion routing server motherboard supports MPTS and SPTS stream analysis, and protocols including RTSP/HLS/SRT/RTMP/HTTP/UDP/RTP, IGMPv2/v3.

The SKD72XXN Series is suitable for various scenarios, including hotels, B&Bs, hospitals, educational institutions, enterprises, and correctional facilities. Wherever you are, this product provides stable and reliable digital TV signals, allowing you to enjoy high-definition, smooth TV programs and an unparalleled audiovisual experience.

◆ Product Key Features:

1.High Integration and Modular Design: This product combines 1 external server host with 8-port I/O protocol conversion routing capabilities with 4 customizable functional modules, forming a highly integrated digital TV headend platform. This modular design allows users to customize and expand functional modules according to actual needs, providing significant flexibility and scalability.

2.Diverse Functional Modules: The SKD72XXN Series offers various customizable functional modules, including HDMI HD encoding modules, digital TV reception and modulation modules for various standards, and transcoding server modules. These modules can meet the needs of different scenarios and users, enabling easy reception, processing, conversion, and transmission of digital TV signals.

3.Wide Applicability: This product is suitable for various digital TV headend systems, such as hotels, B&Bs, hospitals, educational institutions, enterprises, and correctional facilities. Whether for large institutions or small venues, the SKD72XXN Series provides stable and reliable digital TV signals to meet users' demand for high-quality audiovisual experiences.

◆ Products

Host Selection	
Model	Image

SKD7200N	
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Input Module Selection		
Model	Description	Product Image
SKD7210B	4 channel HDMI input module. 4 modules can be installed per host.	
SKD7220	4 tuner channels, supports ATSC, DVBC (J.83B) input. 4 modules can be installed per host.	
SKD7230	4 tuner channels, supports ISDB-T, DVBC (J.83A) input. 4 modules can be installed per host.	
SKD7250	4 tuner channels, supports DVBS/S2 input. 4 modules can be installed per host.	
SKD7250P	2 tuner channels, supports DVBS/S2 input, with CAM (Conditional Access Module) function. 4 modules can be installed per host.	
SKD7260	4 tuner channels, supports DTMB, DVBC (J.83A) input. 4 modules can be installed per host.	

SKD7260P	2 tuner channels, supports DVBC (J.83A) input, with CAM function. 4 modules can be installed per host.	
SKD7270	4 tuner channels, supports DVBT/T2, DVBC (J.83A) input. 4 modules can be installed per host.	

◆ Main Technical Parameters

1. Main Parameters of Host SKD7200N

IP Input Parameters	
Interface	8 Gigabit RJ45 ports
Supported Protocols	Supports MPTS and SPTS stream analysis, supports RTSP/HLS/SRT/RTMP/HTTP/UDP/RTP, IGMPv2/v3
Supported Stream Formats	Program Stream (SPTS/MPTS)
Device Management Parameters	
Interface	RJ45 port
Management Method	Local Web Management
	Remote Cloud Management
Host Power Parameters	
Rated Input Voltage	90V—264Vac
Rated Frequency	47/63Hz
Output Voltage	+12V
Current	29.2A
Physical Parameters	
Chassis Dimensions	484mm (W) x 473mm (D) x 44.5mm (H), 19-inch 1U standard size
Package Dimensions	59.5×55×8.5cm
Operating Temperature & Humidity	-10°C-45°C、40%-70%
Storage Temperature & Humidity	-40°C-70°C、40%-95%

Weight	Net Weight: 5KG, Gross Weight: 6KG
Mounting Method	Standard Rack Mount
Optional Input Module Types	SKD7210B
	SKD7220
	SKD7230
	SKD7250
	SKD7250P
	SKD7260
	SKD7260P
	SKD7270
	Others

2. SKD7210B Module Parameters

HDMI Receiver	4 Channels
	HDMI 1.4 Receiver
	Compatible with HDMI 1.3 and DVI 1.0
Audio Encoding	Sampling Rate: 32~192KHz
	MPEG
	AAC-LC
Video Encoding	H.264/AVC
	Supports Baseline Profile, Levels 1.0 to 4.0, up to 1080p@30fps
	Supports CBR and VBR
	Programmable GOP structure

3. SKD7220 Module Parameters

Input Connector	F-connector (IEC)
	1 Input, internally split to 4 tuner channels
	1 -20dB Test Port
Input Impedance	75Ω
Input Impedance	48-870MHz, full band for ATSC and DVBC (J.83B), supports channel and frequency tuning methods
Input Level	40dBuV ~ 90dBuV
Reception Std.	ATSC, Constellation: 8VSB
	DVBC (J.83B), Constellation: 64QAM/256QAM
Max. Bitrate	32.28Mbps(8VSB)
	30.34Mbps(64QAM)
	42.88Mbps(256QAM)

4. SKD7230 Module Parameters

Input Connector	F-connector (IEC)
	1 Input, internally split to 4 tuner channels

	1 -20dB Test Port
Input Impedance	75Ω
IF Frequency Range	950 to 2150MHz
Input Level	40dBuV ~ 90dBuV
ISDB-T Reception	QAM Modes: DQPSK, QPSK, 16QAM, 64QAM
	Code rates : 1/2, 2/3, 3/4, 5/6,7/8
	Bandwidth: 6MHz, 7MHz, 8MHz
DVBC(J.83A) Rec.	Fully compliant with European Standard ETSI EN 300 429 v1.2.1 (DVB-C) and equivalent Chinese Standard GY/T170-2001.
	Supports all five QAM modes: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
	Automatic Modulation Detection

5. SKD7250 Module Parameters

Input Connector	F-connector (IEC)	
	4 Inputs, 4 internal tuner channels	
Input Impedance	75Ω	
Input Freq. Range	48-870MHz, full band for DTMB and DVBC(J.83A), supports channel and frequency tuning methods	
Input Level	40dBuV ~ 90dBuV	
DVBS2 Reception	Symbol Rates	QPSK 1- 55 MSps
		8PSK 1- 45 MSps
	QPSK Code Rates	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9 and 9/10
	8PSK Code Rates	3/5, 2/3, 3/4, 5/6, 8/9 and 9/10
	Roll-off factors for pulse shaping	0.2, 0.25 和 0.35
DVBS Reception	Symbol Rates	1-55 MSps
	Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
	Supports automatic blind scan for Symbol Rate and Carrier Frequency	
Switching	DiSEqC™ 2.0	
	0/22K	
Polarization Switch	13/18V	

6. SKD7250P Module Parameters

Input Connector	F-connector (IEC)	
	2 Inputs, internally split to 2 tuner	
Input Impedance	75Ω	
IF Frequency Range	950 to 2150MHz	
Input Level	40dBuV ~ 90dBuV	
DVBS2 Reception	Symbol Rates	QPSK 1- 55 MSps
		8PSK 1- 45 MSps
	QPSK Code Rates	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9 and 9/10

	8PSK Code Rates	3/5, 2/3, 3/4, 5/6, 8/9 and 9/10
	Roll-off factors for pulse shaping	0.2, 0.25 和 0.35
DVBS Reception	Symbol Rates	1-55 MSps
	Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
	Supports automatic blind scan for Symbol Rate and Carrier Frequency	
Switching	DiSeqC™ 2.0	
	0/22K	
Polarization Switch	13/18V	
CAM Slots	4 x PCMCIA Type II Slots	

7. SKD7260 Module Parameters

Input Connector	F-connector (IEC)
	1 Input, internally split to 4 tuner channels
Input Impedance	75Ω
Input Freq. Range	48-870MHz, full band for DTMB and DVBC(J.83A), supports channel and frequency tuning methods
Input Level	40dBuV ~ 90dBuV
DTMB Reception	Compliant with GB20600 standard, supports MC (Multi-Carrier) and SC (Single Carrier)
	Constellation Support: 4QAM-NR, 4QAM, 16QAM, 32QAM, 64QAM
	Header Support: PN420, PN595, PN945 symbols
	Code Rate Support: 0.4, 0.6, 0.8
	De-interleaving Depth Support: 240, 720 symbols
	Automatic Carrier Detection and Modulation/Code Rate Detection
	Bandwidth Support: 6MHz, 7MHz, 8MHz
DVBC(J.83A) Rec.	Fully compliant with European Standard ETSI EN 300 429 v1.2.1 (DVB-C) and equivalent Chinese Standard GY/T170-2001
	Supports all five QAM modes: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
	Automatic Modulation Detection

8. SKD7260P Module Parameters

Input Connector	F-connector (IEC)
	2 Inputs, internally split to 2 tuner channels
Input Impedance	75Ω
Input Freq. Range	48-870MHz, full band for DTMB and DVBC(J.83A), supports channel and frequency tuning methods
Input Level	40dBuV ~ 90dBuV
DTMB Reception	Compliant with GB20600 standard, supports MC (Multi-Carrier) and SC (Single Carrier)
	Constellation Support: 4QAM-NR, 4QAM, 16QAM, 32QAM, 64QAM
	Header Support: PN420, PN595, PN945 symbols
	Code Rate Support: 0.4, 0.6, 0.8
	De-interleaving Depth Support: 240, 720 symbols

DVBC(J.83A) Rec.	Automatic Carrier Detection and Modulation/Code Rate Detection
	Bandwidth Support: 6MHz, 7MHz, 8MHz
	Fully compliant with European Standard ETSI EN 300 429 v1.2.1 (DVB-C) and equivalent Chinese Standard GY/T170-2001
CAM Slots	Supports all five QAM modes: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
	Automatic Modulation Detection
	2 x PCMCIA Type II Slots

9. SKD7270 Module Parameters

Input Connector	F-connector (IEC)
	1 Input, internally split to 4 tuner channels
Input Impedance	75Ω
Input Freq. Range	48 - 870 MHz, full-band DVBT and DVBC (J.83A), supporting channel and frequency tuning methods
Input Level	40dBuV ~ 90dBuV
DVBT/T2 Reception	Compliant with ETSI EN 302-755 V1.3.1 and EN 300-744 V1.6.1 standards
	DTG D-book 7 part A Version 3.0 and Nordig 2.2.2 performance compatible
	Automatic T/T2 Detection
	Supports QAM Modes: 4, 16, 64, 256 (with or without rotation)
	Bandwidth Support: 1.7, 5.0, 6.0, 7.0, 8.0 MHz
DVBC(J.83A) Rec.	FFT Sizes: 1K, 2K, 4K, 8K, 16K, 32K
	Fully compliant with European Standard ETSI EN 300 429 v1.2.1 (DVB-C) and equivalent Chinese Standard GY/T170-2001
	Supports all five QAM modes: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
	Automatic Modulation Detection