

VC-5800 / IP ENCODER



Overview

THE VC-5800 IP encoder transmits video and audio signals via IP networks. The compact-sized encoder incorporates the video/audio encoder and IP interface sections into a 1U half rack size chassis and operates with low power consumption. The encoder section supports both SDTV and HDTV formats and has specifications equivalent to those of encoders for broadcasting source contribution use and realizes broadcasting station image quality. Its powerful error correction function realizes high-quality image transmission over low quality IP networks. Simultaneous two network connections are possible, and when working in combination with the VD-5800 decoder, the VC-5800 offers switching between main and standby networks without interruption.

Features

- HDTV(1080i) and SDTV(480i) supported
- High image quality: MPEG2 422P@HL/422P@ML supported
- Audio encoding: Supports MPEG2-AAC/MPEG1-Layer2/LPCM
- Multichannel audio: Supports AES-3 signal x 4 and SDI embedded audio 8 channels
- Surround audio: Supports 5.1ch encoding
- Ancillary Data: Inter-stationary data/digital closed caption data can be transmitted
- Simultaneous two network connections: Switching between main/standby network without interruption
- Supports DHCP and PPPoE: Ready for Internet connection
- Multiple outputs: Ethernet and DVB-ASI output
- Compact size: 210×450×44 (mm), approximately 3.5kg, 1U half rack size chassis
- Two model types: AC powered and 12VDC powered types are available
- Environmental resistance: Operational temperature range between -10 and +50 suitable for field operation

Specifications

Medium signal				
Video signal input				
HDTV:1080i/720p	SMPTE292M	BNCx1	Input connector for HDTV/SDTV	
SDTV:480i/512i	SMPTE259M-C			
Audio signal input				
Digital	AES-3	BNCx4	Group1, Group2 corresponded.	
	SDI embedded	8ch		
Ancillary data input		Available video format		
Inter-stationary data	ARIB TR-B23	1080i, 480i, 512i		
Digital closed caption data	ARIB TR-B23	1080i, 480i, 512i		
User data input/output				
User data	RS-232C	Dsub9P	Also used for maintenance	
Video signal output (for monitoring)				
HDTV:1080i/720p	SMPTE292M	BNCx1	Output connector for HDTV/SDTV	
SDTV:480i/512i	SMPTE259M-C			
Coding bit stream output (for monitoring)				
TS stream	DVB-ASI	BNCx1		
Coding method				
Video coding				
Coding method	MPEG2 422P@HL, MP@HL, 422P@ML, MP@ML			Max.120Mbps
Audio coding				Combinations
Coding method 1	MPEG2 AAC LC-profile	Max. 6ch (Supports 5.1ch)		AAC+LPCM
Coding method 2	MPEG1 Layer2	2ch		Layer2+LPCM
Coding method 3	LPCM(SMPTE302M-2002)	Max.8ch		Layer2+Layer2
Network				
Interface	Ethernet	RJ-45x2	10/100/1000Base-T	
FEC	Redundancy 10% to 50% (in 10% steps)			
Management	SNMP, Telnet, HTTP			
Maintenance port				
Control 1	Ethernet	RJ-45	10/100Base-TX	
Control 2	RS-232C	Dsub9P	Also used for user data	
General				
Power	AC powered model	AC85 to 264V 50/60Hz		
	DC powered model	DC 10.7 to 17.0V		
Power consumption		Approx. 50VA		
Operation temperature		-10 to +50 (non-condensing)		
Dimensions		210(W)x450(D)x44(H) mm		
Weight		Approx. 3.5kg		

Product Name AC powered model:VC-5800-AC
 DC powered model:VC-5800-DC

NEC maintains a policy of product improvement and reserves the right to modify the specifications without prior notice.

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