VISIONETICS

INTERNATIONAL

Au service de votre Numérique

Catalog 2026

DCP Series

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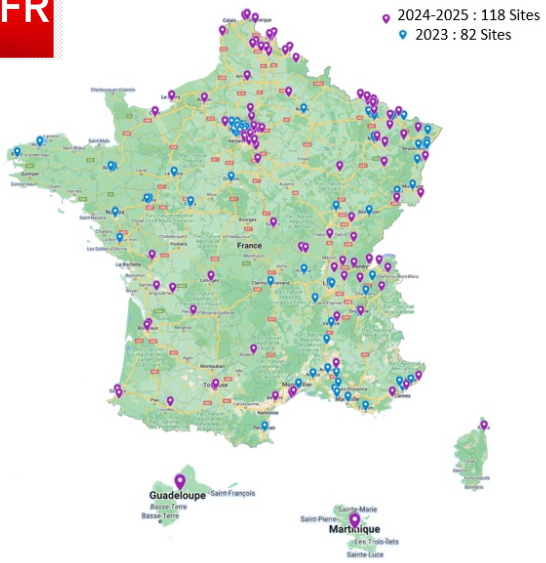
Table of Contents

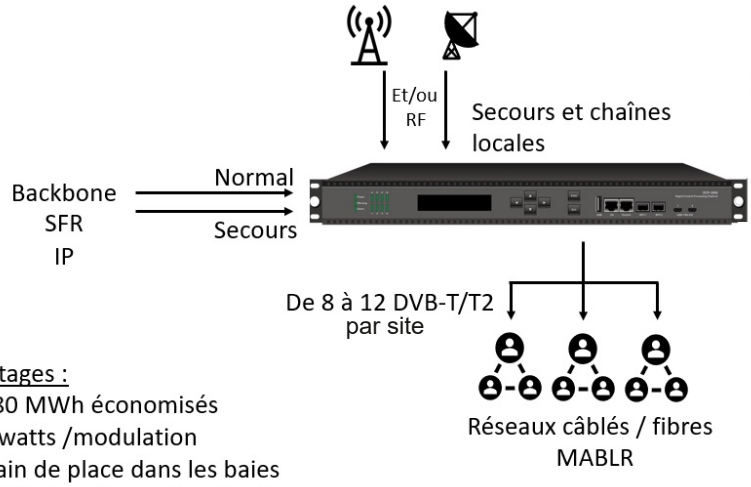
Among our projects

Grand collectif

SFR

9 millions de prises coaxiales



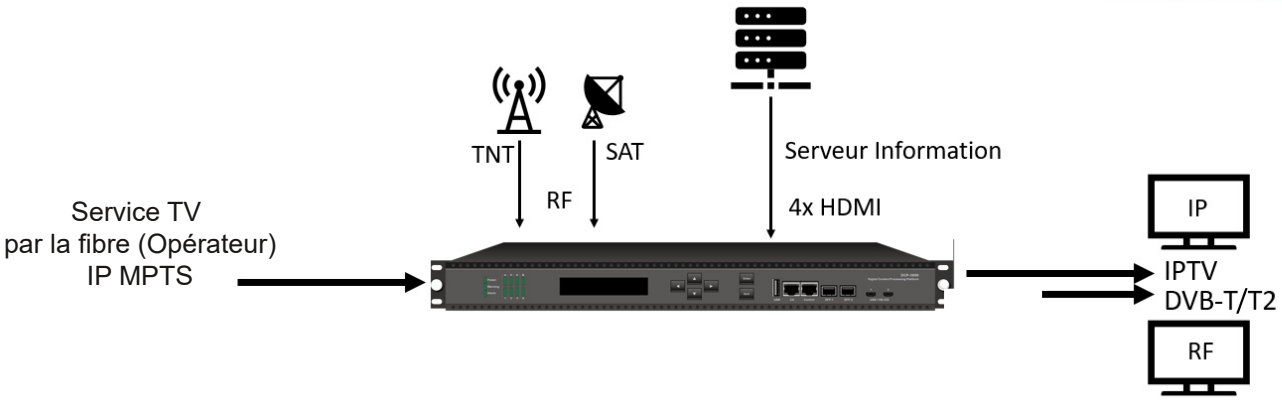


Avantages :

- 480 MWh économisés
- 8 watts /modulation
- Gain de place dans les baies
- Faible besoin en climatisation

Hospitality

Club Med Antilles



Avantages :

- 1 seule interface
- Faible consommation et encombrement
- Modulable, entrée IP / RF vers sortie IP / RF

DCP-3000

Compact and Modular TV Platform

The DCP-3000 solution offers a compact, powerful, and flexible platform, enabling users to build or upgrade a DTV or IPTV headend to meet the diverse requirements of modern network architectures.
The DCP-3000 is a 1U chassis that can transform into any type of digital headend, featuring six independent input/output modules and one expansion module. Each module can be individually configured as a decoder, transcoder, encoder, scrambler, descrambler, multiplexer, QAM/COFDM modulator, or interface. All six I/O modules and the power supply support hot-swapping.

Caractéristiques principales / *Main Features*

- √ Flexible support for combining different functional modules
- √ Six slots for input/output modules and one slot for an expansion module (for reMUX and scrambling)
- √ Input/output throughput of 920 Mbps per TS/IP SFP port, supports IGMP v2/v3
- √ Supports IPTV mode and MPTS to SPTS conversion from any input
- √ 16 TS processors on the main board, supports PSI/SI editing and regeneration, remapping and filtering
- √ Up to 256 MPTS/SPTS TS/IP inputs and 512 MPTS/SPTS TS/IP outputs
- √ Supports 32 re-multiplexing and scrambling channels with the expansion module (P01MS)
- √ Removable fan with alarm and speed control
- √ Management via front panel menu, web interface, and SNMP
- √ Redundant power supplies, monitoring of RSSI, received Eb/No and BER

Technical Specifications of the Chassis

Front panel	
Upgrade/Debug Interface:	1×USB (upgrade), 2×Mini USB (debug)
Control Interface:	1×RJ-45, 10/100/1000 Base-T
AC Interface:	1×RJ-45, 10/100/1000 Base-T
TS/IP Interface:	2×RJ-45(GoE) or SFP, 10/100/1000 Base-T
Display:	2x20 LCD Screen
Rear panel	
Module Slots:	6 slots
Power Supply:	2 hot-swappable redundant power supplies; AC100-240V; 100W & 300W

TS/IP processing	
Standard:	IEEE 802.3, 10/100/1000 Base-T, Full Duplex
Maximum Effective Bitrate:	920 Mb/s
Data Protocol:	UDP or RTP, SPTS or MPTS
Control Protocol:	ICMP, ARP, ICMP v2/v3
General	
Operating Temperature:	0 – 45°C
Storage Temperature:	-10 – 60°C
Operating Humidity:	10 – 90% (non-condensing)

Rear panel

8 x DVB-S/S2 Demodulation + 8 x Descrambling + 5 x ASI Inputs/Outputs + 1 x QAM Modulation

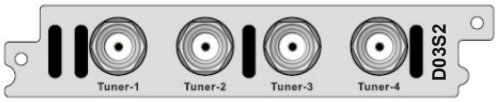
Optional Function Modules

Fonction	Model	Description
Reception/Demodulation Modules	D03S2	4 x DVB-S2X/S2/S Demodulator Module
	D03T2	4 x DVB-C/T/ATSC/ISDB-T Demodulator Module
	D03DC	4 x DTMB/DVB-C Demodulator Module
TS Processing Modules	P01CI	4 x CI De-encryption Module
	P01MS	32 x ReMUX & Scrambler Extension Module
Decoding Modules	D04PA	2 x SDI AVS2/AVS+/H.265/H.264 4K/HD Decoder Module
Encoding Modules	P01EC	4 x HDMI MPEG-2/H.264 HD/SD Encoder Module
	P02EC	4 x SDI MPEG-2/H.264 HD/SD Encoder Module
	P03EC	4 x 3G SDI H.265 4K 4:2:2 10bit Encoder Module
Transcoding Modules	P01AT	4 x H.265/AVS+/MPEG2/H.264 HD/SD Transcoder Module
Modulation Modules	C01MOD	8 x QAM adjacent Modulator Module
	C02MOD	4 x DVB un-adjacent Multi Modulator Module
	C03TM	4 x DVB-T2 Modulator Module
I/O Modules	C01IP	4 x SFP (256 x TS/IP IN/OUT) Module
	C01ASI	5 x ASI IN/OUT Module
	P01DA	2 x DS3 IN + 2 x DS3 OUT + 1 x Adaptator ASI Module

Reception / Demodulation Modules

D03S2

4xDVB-S2X/S2/S Demodulator Module

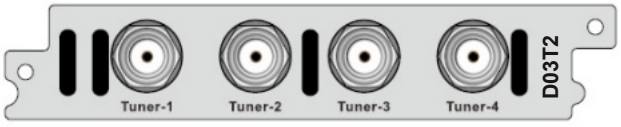


Interface	4 x F type female, 75Ω
Input frequency range	950 ~ 2150 MHz
Input RF Level	-65dBm ~ -25dBm
Symbol Rate	DVB-S2X/S2 QPSK, 8PSK : 1 ~ 60 MSps 16APSK : 1 ~ 58 MSps 32APSK : 1 ~ 34 MSps

Roll-off Factor :	0.35 (DVB-S QPSK) 0.35/0.25/0.2 (DVB-S2 8PSK) 0.35, 0.25, 0.2, 0.15, 0.1, 0.05 (DVB-S2X)
FEC Puncture Rate :	2/3, 3/4, 3/5, 5/6, 8/9, 9/10 (DVB-S2 8PSK) 1/2, 2/3, 3/4, 5/6, 6/7, 7/8 (DVB-S QPSK) 64800 bits FECFRAME VCM and ACM (DVB-S2X)
LNB Voltage / 22K :	0/13V/18V optional, 0 or 22KHz optional
ID LNB :	1 ~ 255
BISS :	BISS-1/E (Up to 40 PIDs de-encryption per tuner input)
T2-MI de-encapsulation :	8 PLP IDs demodulation per tuner input, total of up to 32 PLP ID TS can be converted to the host

D03T2

4x DVB-C/T/T2/ATSC/ISDB-T Demodulator Module

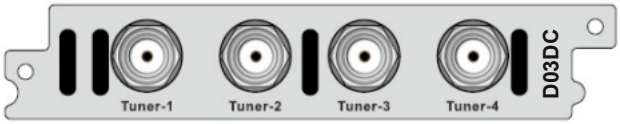


nterface	4 x F type female, 75Ω
Input frequency range	42 ~ 1002 MHz
Input RF Level	-60 ~ 20dBm

Symbol Rate	1,8 ~ 7,2 MSps (ITU J.83 Annex A DVB-C)
Constellation	16/32/64/128/256 QAM (DVB-C) QPSK/16 QAM/64 QAM (DVB-T/ISDB-T)
Bandwidth	6/7/8 MHz (DVB-T/C/ISDB-T) ; 6 MHz (ATSC)
FFT Mode	2K/8K (DVB-T) ; 2K/4K/8K (ISDB-T)
Guard Interval	1/4, 1/8, 1/16, 1/32 (DVB-T/ISDB-T)
FEC Code Rate	1/2, 2/3, 3/4, 5/6, 7/8(DVB-T) 2/3 (ATSC)

D03DC

4 x DVB-C/DTMB Demodulator Module



Interface	4 x F type female, 75Ω
Input frequency range	48 ~ 860 MHz (DVB-C) 45,5 ~ 866 MHz (DTMB)

Input RF Level	-15 dBm ~ +15 dBm (DVB-C) ; -87 ~ -29 dBm (DTMB)
Symbol Rate	1 ~ 7 MSps (DVB-C) ; 7.56 Mbauds (DTMB)
Constellation :	16/32/64/128/256 QAM (DVB-C) 4 QAM-NR, 4 QAM, 16 QAM, 32 QAM, 64 QAM (DTMB)
Bandwidth :	6/7/8 MHz
Guard Interval:	PN420, PN595, PN945
FEC Code Rate:	0.4, 0.6, 0.8

Decoding Module

D04PA

2 x AVS2/AVS+/H.265/H.264 4K/HD decoder Module

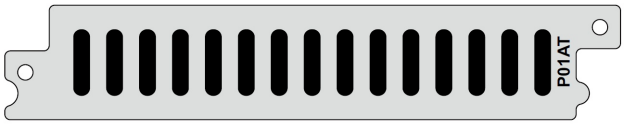
Interface	2x SDI out, 1x Genlock Input, BNC Female, 75Ω ; 1x D-sub 15 Female

Video Format	MPEG-2 (MP@ML SD, MP@HLHD) MPEG-4 AVC Part 10/H.264 (MP@L3,SD)
Audio Format	MPEG-1 Layer II, AAC-LC, HE ACC V1/V2, AC3
Video Resolution	1080i30, 1080i29.97, 1080i25, 720p60, 720p59.94, 720p50, 576i25, 480i29.97
Aspect Ration	16:9, 4:3 Selectable
Video PID Bit Rate	≤50Mbps

Transcoding Module

P01AT

4 x H.265/AVS+/MPEG-2 / H.264 HD / SD transcoder Module



Transcoding Mode	H.264/AVC Baseline, Main & High Profile @L4.0 or less & MPEG-2 MP@ML
Transcoding Output	H.265/AVS+ HD/SD to MPEG2/H.264 HD/SD, MPEG2 HD/SD to H.264 HD/SD H.264 HD/SD to MPEG2 HD/SD AC3 Transcoding

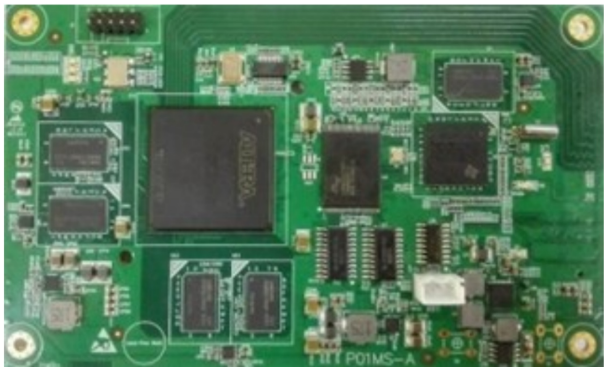
TS output	4x TS Transcoding & one channel remux TS to host
GOP	GOP Setting
PID	Audio/Video PID, PCR PID & Service name setting
Audio Encoding	MPEG-1 Layer II, MPEG-2/4, AAC-LC/HE-AAC, audio passthrough
Audio compression Bit Rate	300 K ~ 20 Mbps, CBR/VBR mode
Aspect Ratio	4:3, 16:9

TS processing Modules

P01CI
4 x CI De-encryption Module

Interface	4 x Independent Common Interface (DVB-CI) slots
Descramble:	Single program, multi-program scrambling
CI Decrypt :	Multiple programs CAS or BISS-1/E De- encryption
CAS :	Support all major CA systems
Monitoring :	Support CAM watchdog

P01MS
ReMUX & Scrambler Extension Module

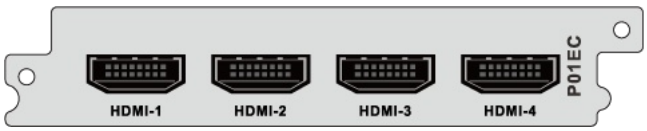


Standard	Compliant with ISO13818 & EN300 468
Re-Multiplexing & Scrambling Function	32 independent TS reMUX's and Scramblers
Scrambling	DVB Common Scrambling Algorithm & BISS-1/E Scrambling
Simul-Crypt	Up to four Local or Remote CAS synchronous simul-crypt processing
PID	PID filtering, remapping, pass through & mapping
PSI/SI	Insert & Edit PSI/SI tables, EIT Insert, passthrough & regenerate
PCR	PCR re-stamp & calibrate
Temperature Control	Self-temperature monitoring, error alarms such as continuous counting /PCR

Encoding Modules

P01EC

4 x HDMI MPEG-2/H.264 HD/SD Encoder Module



Interface :	4x HDMI, type A
Coding Profile & Level :	H.264/AVC :BLP, MP, HP @L4.0 or less MPEG-2 : MP@ML

Encoding output :	4 x independent HD/SD Encoding
TS Output :	4 x TS encoding/transcoding & one remux TS to host
Video Input Resolution :	1080p, 1080i, 720p, 576i, 480i.
GOP :	GOP Setting
Audio Encoding :	MPEG-1 Layer II, MPEG-2/4 AAC-LC, AC3.
Audio Gain :	-7 dB ~ +12 dB adjustable
Sampling Format :	4:2:0 10 bits (YCbCr).
Aspect Ratio :	4:3 ou 16:9.

P02EC

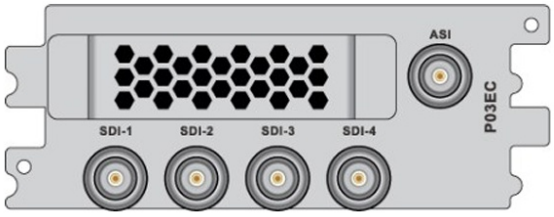
4 x SDI MPEG-2/H.264 HD/SD Encoder Module

Interface	4xSDI
Coding Profile & Level :	H.264/AVC : HP@L4.0 MPEG-2 : MP@ML (SD) ou MP@HL (HD)
Encoding output :	4 x independent HD/SD Encoding

TS Output :	4 x TS encoding/transcoding & one remux TS to host.
Video Input Resolution :	1080p, 1080i, 720p, 576i, 480i.
GOP :	GOP Setting
Audio Encoding :	MPEG-1 Layer II, MPEG-2/4 AAC-LC, AC3.
Audio Gain :	-7 dB ~ +12 dB adjustable
Sampling Format :	4:2:0 10 bits (YCbCr).
Audio Compressed Bit Rate:	300 Kbps ~ 20 Mbps (CBR/VBR)
Aspect Ratio :	4:3 ou 16:9.

P03EC

4 x 3G SDI H.265 4K 4:2:2 10bit Encoder Module



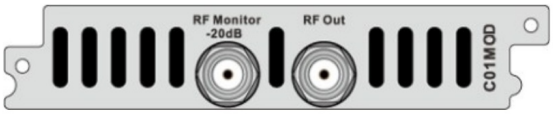
Interface	3G SDI Input, 4 x BNC, 75Ω
Coding Profile & Level	H.265 (HEVC)
Encoding Output	4 x HD or 1x 4K UHD Encoding
Video Input Resolution	2160p, 1080p, 1080i, 720p, 576p, 576i, 480i

GOP	GOP setting
Resolution Adjust	Video resolution reduction, horizontal and vertical adjustable
Aspect Ratio	10bit, 8bit,, 4:2:2, 4:2:0
Audio Compression Bit Rate	300K ~ 80Mbps, CBR/VBR mode
Audio Encoding	MPEG-1 Layer II,MPEG-2/4, AAC-LC,AC3
Audio Input	SDI Embedded
Audio Mode	Stereo
Audio Sampling Format	48KHZ
Audio Compression Bit Rate	64~384kb/s

Modulator Modules

C01MOD

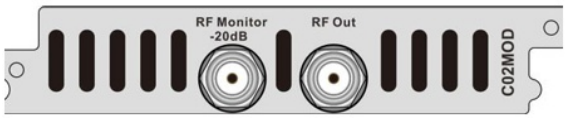
8 x QAM adjacent Modulator Module



Interface	2 x F type Female, 75Ω, (1 x main output, 1 x -20dB monitor output)
Modulation Mode	QAM Mode
RF Output Range	48 ~ 1000MHz, step by 1KHz
Symbol rate	2.5 ~ 6.99MBauds
RF total output level	88 ~ 118dBuV (108dBuV each carrier)
Spurious rejection	55dB
Return loss	-10dB
RF Output	2 x 4 adjacent channel carriers QAM
QAM Modulation	ITU-T J.83 Annex A, C
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
MER	> 38dB, BER < 10E-99

C02MOD

4 x QAM/COFDM/DTMB/ISDB-T Modulator Module



Interface	2 x F type Female, 75Ω (1 x main output 1 x -20dB monitor output)
Modulation mode	QAM, COFDM, DTMB, ISDB-T (selectable)
RF Output Range	48 ~ 1000MHz, step by 1KHz
RF Output	4 x RF output independently
RF total output level	88 ~ 105dBuV
Spurious rejection	50dB
MER	> 35dB
Return loss	-10dBB
QAM Modulation	J83.A (DVB-C) , J83.B (Clear QAM)
Constellation	16QAM,32QAM,64QAM,128QAM, 256QAM
Symbol rate	J83.A DVB-C adjustable, J83.B 5.05641 MS/s&5.360537 MS/ss
COFDM Modulation	
Constellation	QPSK,16QAM,64QAM
Bandwidth	6/7/8MHz
FFT Mode	2k,4k,8k
Guard Interval	1/4,1/8,1/16,1/32
DTMB Modulation	
Constellation	4QAM,16QAM,32QAM,64QAM
Bandwidth	2M~8M
Time Deint	240,720
Guard Interval	PN945,PN595,PN420
FFT Code Rate	2/5,3/5,4/5
ISDB-T Modulation	
Constellation	4QAM,16QAM,64QAM
Bandwidth	6MHz
FFT Mode	2k,4k,8k
Guard Interval	1/4,1/8,1/16,1/32
FFT Code Rate	1/2,2/3,3/4,5/6,7/8

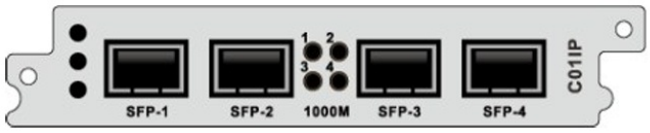
C03TM

4 x COFDM Modulator Module

Interface	2 x F type Female, 75Ω(1 x main output, 1 x -20dB monitor output)
Modulation Mode	QCOFDM Mode
RF Output Range	48 ~ 860MHz, step by 10KHz
IRF total output level	80 ~ 110dBuV
Constellation	BPSK, QPSK, 16QAM, 64QAM
Bandwidth	6/7/8MHz
Spurious rejection	>55dB
Return loss	-12dB
MER	> 38dB
Guard Interval	1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256
FFT Mode	1k, 2k, 4k, 8k,8k EXT, 16k, 16k EXT, 32k, 32k EXT
MER	> 38dBz

I/O Modules

C01IP
4 x SFP (256 x TS/IP IN/OUT) Module

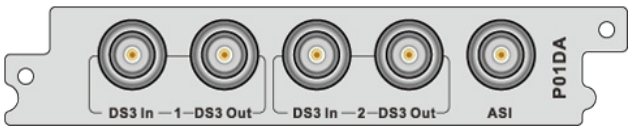


Interface	4 x SFP, 1000 Base-T
Standard	IEEE 802.3, 1000Base-T, Full Duplex
Maximum bit rate	920Mbps
Data Format	UDP/RTP, Multicast/Unicast, SPTS/MPTS
Control Protocol	ICMP, ARP, IGMP v2/v3
Maximum number of services	4x 64 TS in; 4x 64 TS out
Operational mode	4 x independent or 1+1 redundancy

C01ASI
5 x ASI IN/OUT Module

Interface	5 x BNC Female, 75Ω
Standard	DVB-ASI, EN50083-9
Input or Output	ASI Input or output, up to 5xASI Input or 5xASI Output
Bit Rate	Up to 213Mbps
Minimum Rx Sensitivity	88 ~ 118dBuV (108dBuV each carrier)
Maximum Input Voltage	880mV
T2-MI	Support

P01DA
2 x DS3 Input/2 x DS3 Output/1 x ASI Adaptor Module



Interface	5 x BNC Female, 75Ω
Standard	DVB-ASI, EN50083-9/ITU-T G.703
Frame Structure	ITU-T G.752/ITU-T G.804
ASI	Switch by Web Control
DS3	Switch by Web Control
DS3 Bit Rate	44.736Mbps