

# Secure Content Distribution with Compact Receiver

The Synamedia® PowerVu Compact Receiver is designed for satellite content distribution, and targets the broadcast, business TV, private networks, and SMATV environment.

The receiver offers the ability to receive digitally encrypted video, audio, VBI, and data. It provides a cost-effective, variable-rate solution to transition existing DVB®-S/MPEG-2 services to DVB-S2/MPEG-4&HEVC and compliments the Synamedia® PowerVu Professional receiver (D9800) in emerging markets



## Key Functionalities

### Ease of Use

- The unit is set up using the Web Interface via the Ethernet port and has navigation keys on the receiver's front panel for basic channel change actions and monitoring views.

### Free-to-air Reception

- This receiver is capable of receiving DVB/MPEG compliant free-to-air broadcast.

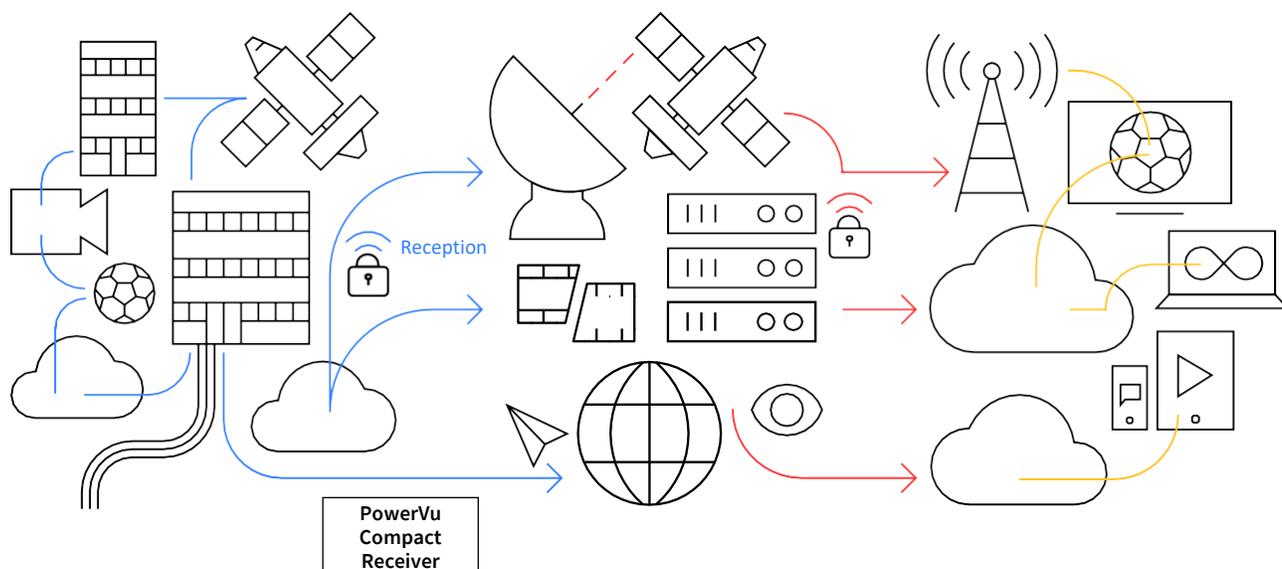
### Secured Broadcast Reception

- Supporting the PowerVu conditional access with DES or DVB descrambling using AES128 encryption, this receiver can be used to receive secured corporate communication of video, audio, and data broadcast.
- It can also be used for secure delivery of TV programming to hotels, MDUs, homes, and commercial establishments such as restaurants and stores.
- The Compact Receiver also supports VideoGuard Conditional Access (CA) support through CAM

## Technical Advantages

- DVB-S and DVB-S2 Satellite input support
- Zixi and SRT IP input support
- PowerVu® conditional access with AES128 support
- CAM interface hardware for DVB and VideoGuard CAM-based descrambling
- MPEG-2, MPEG-4 and HEVC support
- SD, HD, and FHD video support
- HDMI and analog video output
- MPEG, Dolby® Digital, and HE-AAC audio decoding, DDP support
- One unbalanced stereo pair of audio outputs
- DVB Subtitling and DVB VBI (WST, WSS, VPS)
- Fingerprint trigger
- Service replacement support
- Field upgradeable software
- Monitoring support in PowerVu Insight
- Front panel 4-digit LCD for channel display and info
- Ethernet 10/100BaseT for Web Interface and IP Data

## Video Network Chain



Distribution

Processing

Delivery

## Product Specifications

Parameter	Value
System	<ul style="list-style-type: none"> <li>• MPEG-2/DVB Compatible EN300</li> <li>• 421, EN 300468, H.264, HEVC</li> </ul>
Demodulation	<ul style="list-style-type: none"> <li>• DVB-S QPSK, DVB-S2 QPSK, 8PSK, 16 APSK (optional licence)</li> </ul>
<b>Tuner</b>	
Number of RF Inputs	<ul style="list-style-type: none"> <li>• 1</li> </ul>
Input Level	<ul style="list-style-type: none"> <li>• -25 dBm to -65 dBm per carrier</li> </ul>
Frequency Range	<ul style="list-style-type: none"> <li>• 950 MHz to 2150 MHz</li> </ul>
Symbol Rate Range	<ul style="list-style-type: none"> <li>• DVB-S: 1.0 to 45 MSymbols/s</li> <li>• DVB-S2: 1.0 to 45 MSymbols/s</li> </ul>
Satellites	<ul style="list-style-type: none"> <li>• C-band and Ku-band</li> </ul>
Receiver Spectrum Sense	<ul style="list-style-type: none"> <li>• Normal and Inverted</li> </ul>
Input Impedance	<ul style="list-style-type: none"> <li>• 75Ω</li> </ul>
<b>IP input support</b>	
Number of IP inputs	<ul style="list-style-type: none"> <li>• 1</li> </ul>
Protocol support	<ul style="list-style-type: none"> <li>• 1 SRT or Zixi input</li> </ul>
<b>Conditional Access</b>	
Synamedia PowerVu CA	<ul style="list-style-type: none"> <li>• DES/DVB scrambling with AES128 bit decryption</li> </ul>
DVB-CI	<ul style="list-style-type: none"> <li>• 1 Common Interface slots: EN 50221</li> <li>• Multicrypt and Simulcrypt support</li> </ul>
Other	<ul style="list-style-type: none"> <li>• Biss mode 1/E</li> </ul>

Analog Video Output	
Number of Channels	• 1
Connector Type	• RCA
Video Decompression Type	• MPEG-2 4:2:0, MPEG-4 4:2:0, HEVC 4:2:0
Level	• 1.0 V pp±5%
Video Standard	• NTSC and PAL B/G/I/D/M/N, supports HD down-conversion
Digital Audio/ Video Output	
Number of Outputs	• 1 HDMI digital audio/video output, supports SD-to-HD up-conversion
Analog Audio Output	
Number of Channels	• one stereo pair or 2 mono channels
Connector Type	• RCA
Output Level	• Unbalanced, 2 V rms ±10% at 0 dBFS
Audio Decompression	• MPEG 1 Layer 2, Dolby Digital Plus, HE-AAC
VBI	
NTSC	• Lines 10 to 22 fields 1 and 2
PAL	• Lines 7 to 22 fields 1 and 2
	• WST, WSS, VPS

Ethernet port (webUI and IP input)	
Connector	• RJ-45, 10/100BaseT
Environmental Specifications	
Operating Temperature	• 0 - 50°C (32 - 122°F)
Storage	• -20 - 70°C (-4 - 158°F)
Chassis Mechanical Specifications	
Height	• 1.8", supports 3 single units in a 1.5RU spacing, 19in. EIA Rack mountable.
Chassis Mechanical Specifications	
Width	• 5.7"
Depth	• 4.9"
Weight	• 1.75lbs (with PS)
Chassis Mechanical Specifications	
PS Voltage Range	• Power Supply Input 100 V to 240 VAC, 1A, 50/60Hz. Output 12Vdc, 2.5A
Unit Input	• 12Vdc, 1.5A
Power Consumption	• 35 W max.
LNB Power on satellite input	• +13 V/+18 V @ 350 mA max.



## Ordering Information

Synamedia Compact Receiver (D9866)	Part Number
D9866 PAL/NTSC HEVC IRD with CAM	D9866-CSR-CAM
D9866 License Upgrade	D9866-LIC-UPGR
HD enablement on HDMI	L-D9866-VR-HD
D9866 16 APSK demodulation license	L-D9866-SAT-APSK
D9866 Full HD output license (1080p)	L-D9866 VR-3G
HEVC Decode enablement	L-D9866-DEC-HEVC
D9866 SRT license	L-D9866-SRT
D9866 Zixi license	L-D9866-ZIXI
D9866 IP Bundle license	L-D9866-IPBUNDLE

## Services & Support

Synamedia provides a broad portfolio of services and support to increase your network's business value and return on investment. We take a customer-centric approach, aligning our level of support to your technological requirements and network complexity. That way, you can successfully operate our products and solutions to ensure that you achieve optimal performance throughout your network's life cycle.

## Warranty & Contact Information

[Read our detailed warranty information.](#)

Learn more about Synamedia's [video network distribution solutions](#).

For more information, contact your account manager or [visit our site](#).

## About Synamedia Video Network Distribution Solution

Synamedia offers a comprehensive distribution solution for content providers to securely deliver video to multichannel programming video distributors (MPVDs). Part of Synamedia's end-to-end video network portfolio, the solution is anchored by a converged platform enabling the distribution of linear channels via satellite and/or terrestrial networks. Our cost-effective solution leverages network control, reception and managerial capabilities to ensure the reliable delivery of premium quality video through flexible transmission options tailored to your working environment.