

Control Every Aspect of Secure Distribution of Your Valuable Assets From One Place

Distribute video, audio and data securely to a large receiver population with the Synamedia's PowerVu Network Center solution. PowerVu Network Center is the core of the Synamedia PowerVu Media Distribution product portfolio, designed to meet the digital content distribution needs of programmers, private networks, and other network operators.

The PowerVu Media Distribution solution is an end-to-end offering enabling content distribution reliably and securely to affiliates over satellite, and/or CDN, and/or IP networks. It provides complete control and monitoring over your software and/or hardware receiver endpoints, while protecting content and revenue.

PowerVu Network Center supports multiple deployment models – be it on-premises, private cloud, or public cloud – providing the flexibility to navigate today's rapidly evolving distribution environment better.

Key Functionalities

Security

- Gives content owner complete control over transmitted content that a Synamedia PowerVu IRD user can access
- Offers a reliable, field proven conditional access (CA) system

Decoder management

- Uses the Synamedia PowerVu Management Console to control where and how your information is received and processed at the managed endpoints
- Targets all Synamedia PowerVu receivers in the field providing all the information necessary to address Synamedia PowerVu receivers for specific service authorization and receiver control
- Uses advanced input control for flexible service switching across the satellite and IP delivery network
- Offers intuitive SRT and TS over HTTP connection management

Event management

- Provides a PNC Event Management system with enhanced views like calendar view, event list view, and timeline view to extend and change events on the fly from the UI
- Offers via Live Event Controller ultimate flexibility to schedule content replacement across the receiver footprint for advanced blackouts and complex live event management

Endpoint monitoring

- Provides an optional PowerVu Insight component that enables monitoring and analytics of receiver endpoints
- Uses secure communication channels to the two-way, IP-enabled endpoints

Technical Advantages

- Ensures secure and reliable distribution of content over satellite and/or IP, including ABR delivery
- Provides full conditional access (CA), control and monitoring over all endpoints
- Includes best-of-breed cloud-native encoding, including HEVC, multiplexing and PowerVu encryption
- Leverages large global footprint of professional receivers
- Offers proven distribution solution set for content providers and broadcasters
- Deploys on-premises or on private and public cloud infrastructures
- Comes with the Synamedia-managed and customer-operated Quortex PowerVu SaaS offering

Product Specifications

System Management	
Industry Standards	<ul style="list-style-type: none"> MPEG-2 DVB, AVC (H.264), and HEVC
Commercial Conditional Access	<ul style="list-style-type: none"> PowerVu standard (legacy IRDs) and AES128
Scrambling	<ul style="list-style-type: none"> DES, DVB or Simulcrypt
Number of Signals or TS	<ul style="list-style-type: none"> 4 (with traditional DCM PowerVu MUX architecture), Full TS flexibility for the current (v) DCM architectures
Multiplexer Control	<ul style="list-style-type: none"> ASI and GbE interfaces
Modulator Control	<ul style="list-style-type: none"> Supported for Newtec M6100 modulator platform
Digital Program Insertion	<ul style="list-style-type: none"> Supported
Email Alerts for Alarms	<ul style="list-style-type: none"> Supported
Data Replication	<ul style="list-style-type: none"> Optional
Network Time Protocol Synchronization	<ul style="list-style-type: none"> Supported

System Control Functions	
Program and Event Scheduling	<ul style="list-style-type: none"> Bandwidth management MetroMux software Password privilege system Diagnostic logs Transaction logs Automatic and manual database backups

Platform Support	
Client/Server Architecture	<ul style="list-style-type: none"> Server: x86 compute platforms, Client interface: Windows 7 and up Minimum x86 Config: Single 2.4GHz 4core CPU, 2x32Gb Mem, Dual 300Gig Hard Drive Storage, RAID 2 Ethernet ports, CentOs/RedHat/Oracle Multiuser remote access Remote access Simple Network Management Protocol (SNMP) interface for monitoring: optional Full REST APIs for monitoring and control

Decoder Control Functions	
Functions	<ul style="list-style-type: none"> Full decoder database with reporting options: 250,000 Tier assignment: 216 Blackout and spotlight codes Fingerprint trigger Force tuning Homing channel Remote control outputs Service replacement: scheduled, conditional access and cue-trigger Satellite code and license download to receivers Decoder lock-out of front panel Decoder group and search capability Visual IRD management, in-band control Advanced Input Control (AIC): ability to stitch services delivered over satellite and/or IP delivery networks Affiliate Connection Management for SRT and TS over HTTP inputs Optional Live Event Controller Ability to force-tune endpoints to last LEC event

Ordering Information

Description	Part Number
vPNC x86 based system (vPNC)	R-VPNC-APPS
vPNC Platform license (one per instance)	L-VPNC-PLATFORM
vPNC V18.x software	SW-VPNC-V18 SW-VPNC-UPG-V18
vPNC PowerVu Base Encryption function	L-VPNC-LIC-PVU
vPNC PowerVu AES128 Encryption function	L-VPNC-LIC-AES128
vPNC PowerVu Simulcrypt Encryption function	L-VPNC-LIC-SIMUL
vPNC Feature Package 1 (Metromux, DPI, SNMP)	L-VPNC-LIC-PKG1
vPNC Feature Package 2 (DataRep/HA, Xcoder Ctrl, AdTier, OSD)	L-VPNC-LIC-PKG2
vPNC Feature Package 3 (LEC, PNC Sat Dis Rec, Db Segmentation, AIC)	L-VPNC-LIC-PKG3
vPNC SW Feature Support (custom)	L-VPNC-LIC-SUP
Contact your Sales team for help with vPNC upgrades	

To place an order or download software, visit the Synamedia Ordering Portal Home Page, or contact your Synamedia Sales representative.

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.](#)

About Synamedia Video Network Solutions

Synamedia is a leading global provider of video distribution, streaming, processing, and network delivery solutions for content owners and service providers. Our comprehensive, cloud-based SaaS and managed service solutions and software products enable customers to manage OTT media streaming and broadcast workflows, secure video content and services, and deliver premium user experiences across all screens. Leveraging expert know-how and 30-plus years of experience for over 1,000 customers worldwide, Synamedia helps video businesses launch, monetize and scale services across all devices to capture a greater share of the consumer video wallet.

Next Steps

Learn more about **Synamedia Video Network solutions.**

For more information, **contact us.**