

Enjoy all your SD and HD entertainment on your terms. The Spectrum201 combines cable broadcast and broadband TV services, High Definition video, and Digital Video Recording (DVR) - all in one device.

Cable Broadcast TV

The Spectrum201 offers a wide array of programming choices including both Standard Definition (SD) and High Definition (HD) channels and a program guide to help discover, search and choose content. It also gives various parental control options to manage the flow of programming into the home.

Technicolor's HD video products provide a powerful, flexible platform that enables customers to capitalize on existing infrastructure while providing the capability of supporting a migration to IP Video in the future.

The Spectrum201 is capable of allocating up to 4 QAM demodulators for video capture providing a main display while simultaneously recording up to 3 additional programs and supporting multiple additional outlets.

DOCSIS 3.0 Cable Modem

With its embedded DOCSIS 3.0 certified cable modem with 16 x 4 channel bonding, the Spectrum201 allows for data speed of up to 640 Mbps downstream and 160 Mbps upstream. When sharing QAM input between video and data services, up to 12 QAM demodulators support DOCSIS 3.0 functionality such as DOCSIS Set-Top Gateway (DSG), Metadata, or Video over DOCSIS.

High Definition Video

The Spectrum201 supports HD broadcast services in up to 1080p/60 image quality video using the MPEG-4 and MPEG-2 compression standards.

Digital Video Recording Services

With the ability to pause live TV, view and record multiple shows simultaneously; and rewind, fast-forward, and pause-recorded content, the audience can customize and enjoy their favorite programming at their convenience. The Spectrum201 supports 3.5 inch Hard Disk Drives (HDD) with capacity of up to 1 TerraByte (TB).

Proven and Reliable Conditional Access

Supporting VideoGuard Server - Downloadable Conditional Access System (VGS-DCAS) and PowerKEY® Conditional Access System (CAS), the Spectrum201 provides proven and reliable content security solutions to help minimize piracy and reduce costs.

PowerKEY has been successfully deployed in 300 systems and over 70 million set-top box units around the world. It uses secure processors and three different encryption levels. The PowerKEY system is compliant with MPEG and DVB standards and can accommodate multiple CAS configurations through DVB Simulcrypt.

Features at a Glance

- Embedded 16x4 DOCSIS 3.0 data modem with shared video and DOCSIS QAMs
- MPEG-2 and MPEG-4 HD 1080p/60 video decode and display
- 1-port Fast Ethernet
- Built-in 3.5" Hard Disk Drive (1 TB capacity)
- CPU at 3000 DMIPS
- Supports downloadable Cisco VideoGuard CAS
- Embedded PowerKEY® CA
- 2 highspeed USB 2.0 master ports
- ZigBee RF4CE remote control
- Power management compliancy with VA v3.0 Tier 2









Spectrum201 for Charter Communications

Advanced Cable Digital Video Recorder

Technical Specifications

Cable channel interface

DOCSIS 3.0 front end DOCSIS 3.0 Certified, backwards compatible with DOCSIS 2.0

16 bonded downstream, 4 bonded upstream channels

■ Video QAM demodulators Up to 4

 Modulation 16, 32, 64, 128 and 256 QAM (ITU-T J83 Annex A)

64 QAM, 256 QAM (ITU-T J.83 Annex B)

Digital input frequency range

54 - 1002 MHz

Maximum downstream rates 686 Mbps (theoretical, 16 x 42.88 Mbps)

 Maximum upstream rates 131 Mbps (theoretical, 4 x 32.78 Mbps)

Video decoder

MPEG-4 H.264/AVC Video decoding formats

MPEG-2 up to Main Profile @ High Level

■ Video output resolution Up to 1080p/60, 10-bits

4:3, 16:9 Pan & Scan, letterbox Aspect ratio

Video scaling

Audio decoder

 Audio decoding formats AC3 Dolby® Digital, Dolby Digital Plus®

Dolby MS11 multistream decoding

MPEG-1 Audio Layer I, II

(mono, dual channel, joint stereo, stereo)

MPEG-2 Audio Layer II backward compatible modes

MP3, AAC-HE, AAC-LC

System resources

Dual-thread CPU (3000 DMIPS) Processor

■ Flash Memory 512 MR NAND

 Hard Disk drive 3.5-inch SATA HDD (1 TB capacity)

Software

 Middleware solutions Zodiac

RP/Axiom

DRM and CAS

NCAS

VideoGuard Server - Downloadable

Conditional Access System (VGS-DCAS)

Embedded PowerKEY® CA

Remote control

■ IR remote control Carrier frequencies 38 kHz, 56 kHz modulation

Protocols XMP-1, SA protocol

RF remote control ZigBee RF4CE

Front panel

LEDs

 Buttons 1 single-colour back-lit power/standby button

> 1 single-colour back-lit Capsense menu button 5 single-colour back-lit Capsense navigation butttons

> > (up, down, left, right, circle)

Reset button

1 USB 2.0 master port

Back panel

■ IR remote control detector

■ Cable input 1 F-type connector, external threaded ■ HDMI output 1 HDMI 1.4 type A port with HDCP 2.0

Digital audio output 1 S/PDIF TOSLINK port

2 RCA stereo audio jacks (left, right) Analog audio output

USB 1 USB 2.0 master port (high power: 1.2 A @ 5 V)

Ethernet 110/100 Base-T Ethernet LAN port

■ Power input 1 DC jack

General specifications

Storage temperature

Dimensions 320 x 51 x 200 mm (12.60 x 2.01 x 7.87 in.)

Power supply 12 VDC 3.0 A external PSU

-20 - 60 °C (-4 - 140 °F)

■ PSU input voltage 90 - 132 VAC, 60 Hz (switched mode power supply) 0 - 40 °C (32 - 104 °F) Operating temperature Operating humidity 5 - 95 % RH non-condensing



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