

Welcome the
Digital Era with CONDOR



CONDOR Set-Top Box Platform & Headend Broadcast System



**An affordable *all-digital solution*
for cable systems
of every size**

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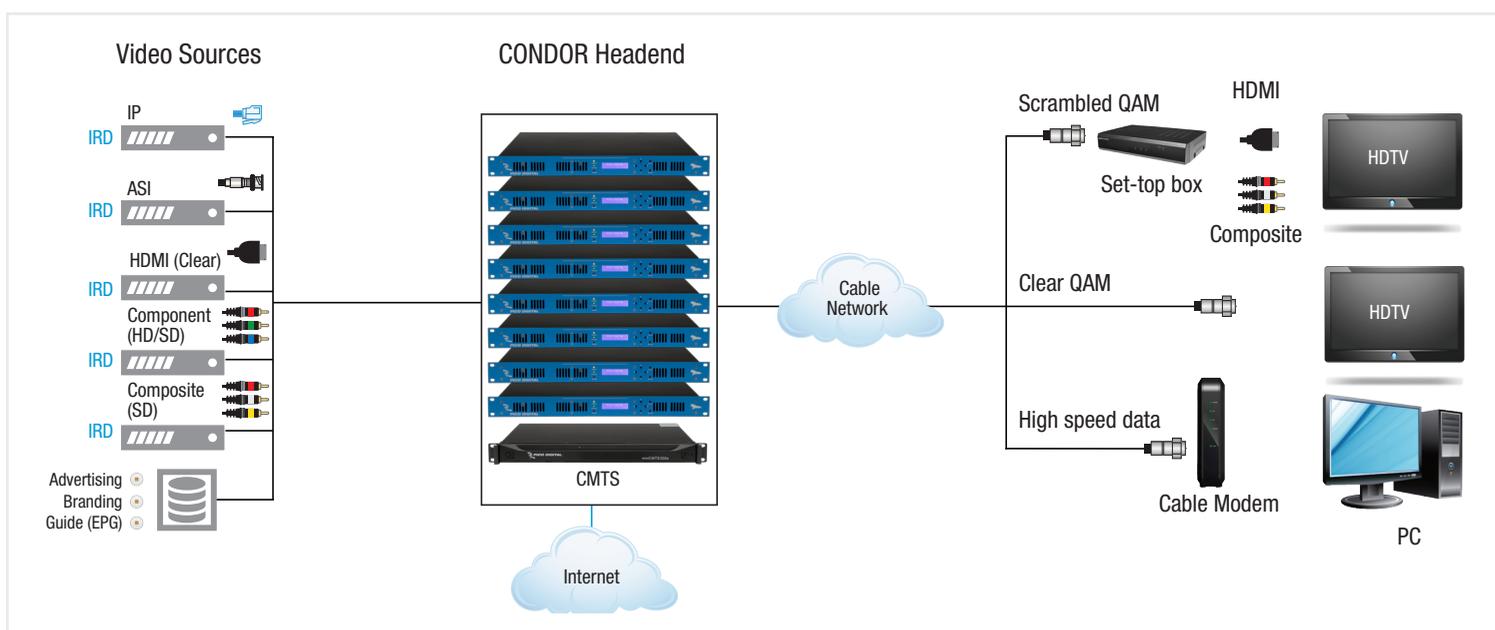
Now you can give your subscribers the digital media experience they expect at a much lower cost than you imagined. With Pico Digital's **CONDOR**, you get an upgradeable set-top box platform and headend broadcast system that empowers you to efficiently convert to all-digital today, while adding new services over time with our future-proof middleware. **CONDOR** is more than just video.

Get all these **great features** now and take **full control** over your **digital future**:

- Electronic programming guide (EPG)
- SD/HD programming
- Basic and triple-tuner DVR options
- EPG advertising revenue
- Full access encryption
- Enables tier-based packages (e.g. Basic, Premium, and Adult)
- Local Branding



CONDOR system diagram example



Subscriber Experience:

- Easy-to-use Electronic Program Guide (EPG) shows viewers what's on and when
- Improved video and audio quality with digital TV technology
- Personal video recorder (PVR) features let viewers record their favorite programs
- A choice of service offerings to meet your subscribers' entertainment and connectivity needs

Home Screen



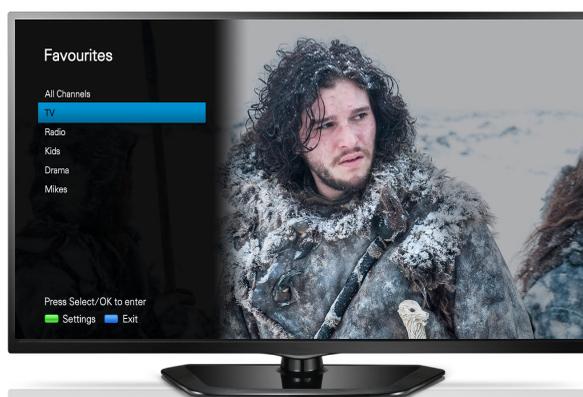
The Home screen acts as a top level menu and allows access to five different screens: Timers, Library, Guide, Settings and Help.

Program Guide



The easy-to-use program guide shows what's on TV and allows users to easily bring up detailed information about programs of interest.

Favorites

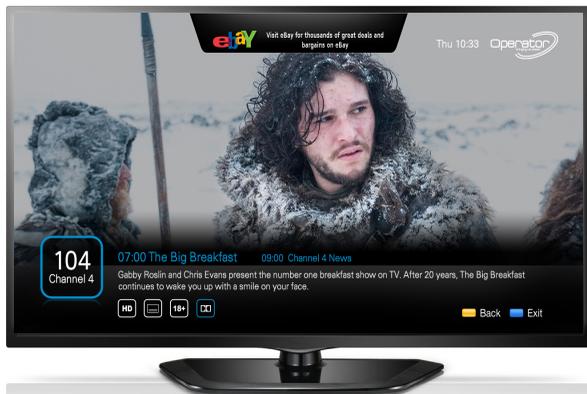


Favorites allow users to personalize their TV guide by choosing the channels they want to see and composing their favorite lists. This feature allows users to quickly navigate to the channels that interest them.

Operator Benefits:

- Allows you to add new value-added services such as HDTV channels, secure adult entertainment, and high-speed broadband internet
- Enables tier based packages, e.g. Basic, Premium and Adult
- Remote activation of STBs speeds up activation and deactivation of subscribers
- Compact form factor reduces headend power and cooling needs as well as space requirements
- Modular construction future-proofs your headend, allowing you to scale with new equipment as your subscriber base and income grow

InfoBar



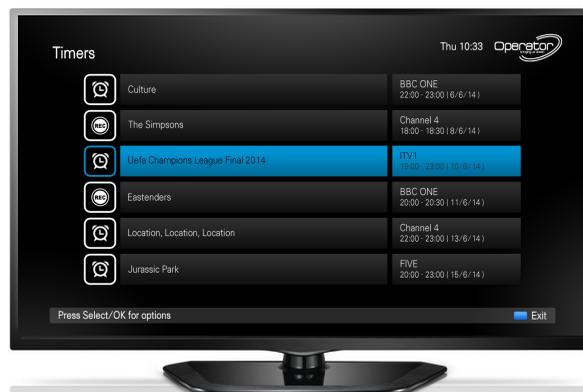
The InfoBar is similar to a traditional program Now and Next bar, which is displayed on channel change or when the user requests.

Library



The Library screen displays video files recorded by the user.

Timers



The Timers screen is a list of all the recordings and reminders a user has set for broadcast content.

CONDOR Set-Top Box Options



VMX3-1

Triple-Tuner High-Definition MPEG-2/4 QAM Set-Top Box With Verimatrix™ CAS

- Decodes high-definition and standard-definition signals
- Triple tuner for recording of multiple TV channels
- Decodes MPEG-2 / AVC / H.264 / MPEG-4 video
- Decodes MPEG-1 Layer I/II
- Clear QAM and Verimatrix® CAS
- Supports 64 and 256 QAM inputs
- Elegant, intuitive, and simple high-definition user interface
- Auto scanning for QAM channels and programs
- Supports Electronic Program Guide (EPG)
- Multiple language support
- Firmware updates via cable TV network
- HDMI® and analog composite video/audio outputs
- PVR via two external USB sticks/drives
- Optical SPDIF
- Universal remote control, HDMI and composite cable included



VMX1-1

High-Definition MPEG-2/4 QAM Set-Top Box With Verimatrix™ CAS

- Decodes high-definition and standard-definition signals
- One tuner for recording one TV channel
- Decodes MPEG-2 / AVC / H.264 / MPEG-4 video
- Decodes MPEG-1 Layer I/II
- Clear QAM and Verimatrix® CAS
- Supports 64 and 256 QAM inputs
- Elegant, intuitive, and simple high-definition user interface
- Auto scanning for QAM channels and programs
- Supports Electronic Program Guide (EPG)
- Multiple language support
- Firmware updates via cable TV network
- HDMI® and analog composite video/audio outputs
- PVR via two external USB sticks/drives
- Coax SPDIF
- Universal remote control, HDMI and composite cable included

BAM-O

Broadcast Advertising Module

Fully Integrated Advertising Module Minimizes Costs, Maximizes Revenues

Pico Digital's BAM-O modular advertising system integrates ads directly into our Electronic Program Guide (EPG) module, allowing advertising content to be pushed seamlessly to subscribers and made available when they're selecting which program to view.

The BAM-O module allows you to generate new revenue streams from any type of advertising in the EPG user interface, as well as promote premium content. And it reaches subscribers at the ideal moment—exactly when they're choosing what they want to view. Ads can be managed through our intuitive web-based interface, allowing you to create and publish ads with a minimum of time and effort.



- Minimize costs and maximize revenues through advertising in the UI
- Promote programs and offers to customers
- Influence prime time viewing and thereby increase peak advertising rates
- Increase viewer awareness of new program choices
- Remind viewers to watch favorite programs
- Provide highlights of selected programs
- Automatically generate reminders or recordings

CONDOR Headend Options

Pico Digital will **customize** your CONDOR headend to fit your channel line-up and scrambling needs with the **optimal combination** of the equipment shown below.



PD1000

The professional-grade PD1000 HD encoder modulation system allows users to encode both HD and SD signals in MPEG-2 or H.264 formats, all in a single rack space. The unit supports real-time encoding, while offering the flexibility of two, four, six, or eight HDMI (in the clear), component, and composite (closed captioning) inputs. The HD encoder offers simultaneous QAM and IP outputs.

The PD1000 enables remote control and monitoring via an intuitive Web interface, provides virtual channel mapping, and supports Dolby® Digital audio encoding. The HD encoder is ideal for commercial residential properties, academic and medical facilities, local area network applications for both CATV and broadcast, as well as the hospitality industry.



SDQ6

Pico Digital's SDQ6 is a high-performance MPEG-2 video encoder that encodes six composite video and Dolby® stereo inputs into multiplexed QAM and ASI outputs. Occupying a single rack space, the compact unit offers PSIP virtual channel mapping of each channel, in addition to EAS and closed captioning. With up to 40 dB of RF output and remote access capabilities, the SDQ6's extensive feature set makes the unit the most cost-effective encoder in the marketplace. The SD encoder is ideal for commercial residential properties, academic and medical facilities, local area network applications for both CATV and broadcast, as well as the hospitality industry.



IPQC

The IPQC is a highly integrated 1-RU video edge QAM that can multiplex and scramble IP video signals and convert them to QAM/DVB-C channels for use in CATV systems, such as the Pico Digital CONDOR.

The unit features a flexible design and can be configured in a number of ways to suit specific end applications. For a DVB-C/QAM/CONDOR CATV system, the IPQC can take 36 single program transport streams (SPTS) via the Gigabit Ethernet port and combine them with external DVB-SI streams to create a full DVB-C-compliant network with up to 12 QAM channels of either Annex A or Annex B. Each of these services can be scrambled using the DVB-CSA through the standard SymulCrypt interface with a conditional access server.

The high-quality QAM output of the edge QAM is organized into three independent blocks of four contiguous channels, which can be placed anywhere in the extended CATV range of 50MHz to 1002MHz.



CASSW / EPG-O

The CASSW Certified Conditional Access Server, now offered by Pico Digital, is a top of the line CAS system that can be easily integrated into any existing cable TV network while providing advanced patent pending security features. The CASSW Pay TV Conditional Access Server and Digital Rights Management system is housed in a compact 1 RU (19") chassis (PDCS). The CASSW was designed by a team of experts with over 50 combined years of experience designing and developing security systems, providing one of the most innovative security systems on the market today.

The EPG-O is a software configuration option for the Pico Digital CONDOR server (PDCS) that is used in combination with Pico Digital's GbE IP-input mux scrambler edge QAM (IPQC) in the CONDOR cable TV system. When this option is ordered, the software comes pre-installed. The EPG-O creates all necessary DVB-SI tables to allow a set-top box to discover all TV channels and display the schedule information (now, next, and up to seven days).



DMG-ASI/IP8

The CONDOR system may include a high-density transport stream ASI-to-IP converter, which features eight ASI input ports and two Gigabit Ethernet ports. The unit provides reliable connection of ASI output devices (such as the SDQ6 encoder) to the IPQC (IP input only) video edge QAM.