

## NetworkTV Conditional Access Modules (CAM)

NetworkTV has introduced several pre-configured starter packages that combine NetworkTV software and hardware components. This will make it simpler for you to choose a suitable solution to meet your IPTV and video content management requirements. Each package contains everything you need for delivering, playing, recording and archiving of live and pre-recorded video content across an IP network. The **NetworkTV Live** Packages provide complete low cost solutions for those clients who only want to deliver live streams. To deliver encrypted broadcast TV channels, NetworkTV has been designed to accept CAM's from a number of different Conditional Access suppliers. You then only have to purchase a viewing smart card from your local broadcaster or TV Operator depending upon which CAM the local broadcaster is using.



Example Viaccess CAM

There are several different types of Conditional Access systems in the market and TV Broadcast Operators generally partner with one of them to deliver encrypted TV channels. The Conditional Access Module (CAM) is inserted into the Common Interface (CI) slot in the NetworkTV Live Gateway Tuner. The Viewing Smart Card from the TV Broadcast Operator is then inserted into the CAM to allow encrypted TV channels to be descrambled. Each NetworkTV Live Gateway has the capability to handle two dual CI Tuners so that two CAMs can be used with each Tuner to provide up to four CI tuners per NetworkTV Live Gateway. Add more NetworkTV Live Gateways to increase the number of Tuners.

<b>Consumer CAM:</b>	The Consumer CAM when used with NetworkTV and an operator authorized smart card, gives access to a single Pay TV programme.
<b>Professional CAM:</b>	The Professional CAM when used with NetworkTV and an operator authorized smart card, gives access to multiple Pay TV programmes.
<b>Description:</b>	<ul style="list-style-type: none"> <li>Adopting ASIC chip with proprietary intellectual property right: Embedded 32-bit CPU (ARM7TDMI);</li> <li>Adopting advanced 0.18-micron technology;</li> <li>Advanced language development environment;</li> <li>Supporting subsequent development of value-added services;</li> <li>Descrambling: Supporting common descrambling algorithm of Europe;</li> <li>DVB-CI interface: Compatible with DVB-CI/PCMCIA</li> <li>Smart Card interface: ISO7816</li> </ul>
<b>Specification:</b>	<ul style="list-style-type: none"> <li>Dimensions: PCMCIA type II;</li> <li>Interface protocols of the host: In full compliance with DVB-CI Profile 1 protocol;</li> <li>External interface of IC card: Build-in SmartCard reader, in compliance with ISO7816 protocol;</li> <li>Operating system: Embedded Linux system with proprietary intellectual property rights;</li> <li>Internal descrambler: Integrated universal DVB descrambler;</li> <li>MPEG DEMUX: Multi-channel SECTION and PID filter configurable through software;</li> <li>Enclosure structure: Latest compact structure and design for assembly;</li> <li>Compatible with MPEG2 &amp; MPEG4 Receivers</li> </ul>
<b>CAM Type (SMIT)</b>	<b>Description:</b>
<b>Viaccess CAM CI Module</b>	This CAM is designed to work with transmissions encrypted in Viaccess from the following broadcasters: BIS TV (France), MAX TV (Romania), Arabesque ART (Middle East), TPS (France), Satisfaction TV, Canalsat (France), AbSat (France), Viasat (Sweden) & others.
<b>Irdeto CAM CI Module</b>	This CAM is designed to work with transmissions encrypted in Irdeto from the following broadcasters: Optus, SelecTV, MySat, PBS, DFH Network, Praetorium, Redlight TV, Inxworld, UPS Direct (Hungary), Canal Digitaal (Netherlands), Greek Nova, Satisfaction TV, SCT, Private Spice, Conto TV, Pink Plus, ART (on Nilesat), Al Jazeera Sport Theme X & others.
<b>Conax CAM CI Module</b>	This CAM is designed to work with transmissions encrypted in Conax from the following broadcasters: N Poland, RTV Romania, Conto TV, Free-X TV, Viacom, NRK, Canal Digital Denmark, Sweden and Norway, Telenor, DigitAlb, Tring, Redlight TV & others.
<b>Viaccess Professional CAM CI Module</b>	Descramble 4 TV Channels using one module (optional 8 channel additional).
<b>Irdeto 2 Professional CAM CI Module</b>	Descramble 4 TV Channels using one module (optional 8 channel additional).
<b>Conax Professional CAM CI Module</b>	Descramble 4 TV Channels using one module (optional 8 channel additional).