



DCI401MCS

SD/HD MPEG-2/4 All-Digital Converter
for Pro:Idiom Protected Content

SATELLITE

VIDEO

Technicolor introduces the DCI401MCS, a low cost Pro:Idiom™ security terminator box designed to allow hospitality, lodging and institution, as well as assisted living operators to reclaim analog bandwidth and address the needs for HD compatibility, affordability, and addressability.

■ Decrypting Pro:Idiom Content

HD content delivered over an RF distribution requires that content protection be applied. For the hospitality market, the standard content protection system is Pro:Idiom™. Commercial TV sets can be purchased which will decrypt this protection in order to properly display content, however, in applications where commercial TV sets are either not available or have not been deployed, the DCI401MCS is the perfect solution.

The DCI401MCS is a small adapter box which can receive the modulated RF content, decrypt the Pro:Idiom™ protected content and then deliver this content to a display using an HDMI connector.

The DCI401MCS is capable of decrypting Pro:Idiom™ protected source material originating from a COM24 or COM24-FLX receiver blade. For unprotected HD or SD content, the DCI401MCS can output to a display using HDMI or a modulated channel 3/4 RF connector.

■ Digital Display Adapter

The DCI401MCS can also be utilized in applications where a digital tuner is not available. These applications may include converting the modulated digital content to an analog NTSC format compatible with older tube displays, or decoding MPEG-4 source material for TV sets which are unable to decode this DIRECTV HD standard.

Whatever the TV or display source, the DCI401MCS can tune and decode content originating from a COM2000 head-end and provide a standard TV output compatible with most TVs available today, thus eliminating the need to purchase or upgrade to commercial TV sets.

■ Easy Installation and Setup

The DCI401MCS is intended to be a simple, plug-in device to allow for access to content. This includes a channel scan upon the first power-on event to build a channel list. A simple menu is provided for further customization including the selection of Closed-Caption options and parental lock features.

■ Small compact design

The DCI401MCS allows flexible positioning without taking up shelf space. It can be mounted behind the TV with the RF control technology allowing operation without the need for line of sight to the terminator box.

Features at a Glance

- HDMI output of Pro:Idiom™ protected content originating on a COM2000
- Analog RF output on channel 3 or 4 of SD or HD In-the-Clear programming
- RF Remote Control to allow for flexible mounting options
- Programmable IR commands to control TV power and volume
- Small form factor (4.33 x 3.19 x 0.96 in.)

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Technical Specifications

Broadcast cable channel interface

- Cable tuner Agile - 54 to 864 MHz (1 GHz optional)
- Input impedance 75 Ohm, unbalanced
Maximum non-destructive input power: 10 dBm
- Channel spacing 6 MHz - IRC/HRC/Standard channel plans
- Demodulation 64, 256 QAM (ITU-T J.83 Annex B)

Transport layer

- Standard ISO 13818-1 MPEG-2 - SPTS / MPTS

Video

- Video decoding formats MPEG-4 H.264/AVC (ISO 14496-10)
MP @ L3
HP @ L4, L4.1
MPEG-2 (ISO 13818-2)
MP @ ML & HL
- Video output resolution 720 x 480i @ 29.97 - 4:3
720 x 480p @ 59.95 - 4:3
720 x 480p @ 59.95 - 16:9
1280 x 720p @ 59.95 - 16:9
1920 x 1080i @ 29.97 - 16:9
- Aspect ratio 4:3, 16:9

Audio

- Audio decoding formats AC-3 per ATSC A/52A
MPEG-1 Audio Layer II
MPEG-4 Part 3

Graphics

- Colors 24-bit color with 8-bit Alpha blending
- Overlay Partial/ fullover analog
- Audio language Stereo and SAP audio supported
- Loader Full code SW download with image authentication

System resources

- Memory 128 MB RAM (for system, video and OSD)
16 MB Flash
- Security Supports Zenith Pro:Idiom™ copy protection

Closed captioning & VBI data processing

- Insertion of CEA-608D closed captioning data (SCTE-20/SCTE-21) on RF

Software

- Architecture Technicolor-developed native software
- User experience Operator configurable, simple channel up/down, volume up/down
- Operator configurable menu options
- Channel name & number on-screen display
- Remote channel mapping
- Remotely manageable, configurable, and updatable

Front panel

- Single-color LED for status indication and RF reception acknowledgement
- RF Remote control protocol Zigbee RF4CE

Back panel

- Cable RF input F type connector
- Cable RF output F-type connector - Channel 3/4 only
- HDMI output 1 HDMI type A receptacle with HDCP
- Channel 3/4 switch
- Power input 1 DC jack

General data

- Product certification UL and FCC
- MTBF > 100000 hours
- Power supply 5 VDC external PSU
- PSU input voltage 100 - 120 VAC, 60 Hz
- Operating temperature 41° - 113° F (5 - 45° C)
- Power consumption Maximum 10 W (AC power)
- Dimensions 4.33 x 3.19 x 0.96 in. (110 x 81 x 24 mm)

TECHNICOLOR MCS

101, West 103rd Street
Indianapolis, IN 46290 - USA
Tel: +1 (844) 893 2494

www.technicolor.com/mcs

SALES CONTACT

For more information please get in touch with your usual sales representative or use the following email:

mcssales@technicolor.com



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