technicolor

DCI401MCS

SD/HD MPEG-2/4
All-digital converter for
Pro:Idiom protected networks

Technicolor, a worldwide leader in the media and entertainment sector, introduces a low cost Pro:Idiom security terminator box designed to allow hospitality, lodging and institution, and assisted living operators to reclaim analog bandwidth and address the needs for HD compatibility, affordability, and addressability.

Conversion of
Pro:Idiom protected HD content

Allows operators to deploy this product as a solution to enable both residential and commercial televisions to display Pro:Idiom protected HD content

Decoding of all
DIRECTV video and audio formats

Allows operators to support legacy and limited function Televisions which may not decode all DIRECTV video formats

Remotely configurable and manageable

Supports in-band remote management and configuration of channel mapping, menu options and user experience via headend or PC app

Simple or rich user experience

The simple operating system can be configured to replicate the analog TV experience without requiring complex menus or remotes, enabling less technical users to operate without problems. It can also provide an interactive channel list and user adjustable options to give a high end navigation experience, all remotely configurable from a COM1000 headend.

Small compact design

Allows flexible positioning without taking up shelf space.
Can be mounted behind the TV with the RF control technology allowing operation without the need for line of sight to the converter box

Features at a Glance

- Decoding of SD/ HD MPEG-2/4 digital cable TV signals to output via HDMI for digital TVs or RF output (for non-Pro:Idiom protected content only) for legacy TVs
- Remotely configurable and manageable
- Remote control via RF or IR
- Simple or rich user experience
- Supports ATSC PSIP for programming information
- Supports EAS per SCTE-18
- Small compact design

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Technical Specifications

System key resources

■ RAM	(for System, Video & OSD): 128 Mbytes	
■ FLASH	16 Mbytes	
■ Security	Supports Zenith Pro:Idiom copy protection	

Broadcast Channel Interface

■ Cable tuner	Agile - 54 to 864 MHz (1GHz option)
■ Input impedance	75 Ohm unbalanced
	Max. nondestructive input power: 10 dBm
■ Channel spacing	6 MHz - IRC/ HRC/Standard channel plan
■ Demodulation	64/256-QAM - ITU J83 Annex B

Transport Layer

■ Standard ISO13818-1	(MPEG-2 - SPTS / MPTS)

Video

■ Standard	ISO13818-2 (MPEG-2) – MP @ ML & HL ISO14496-10 (MPEG-4 AVC) – MP @ L3 and HP @ L4, L4.1
■ Output aspect ratio	4:3 / 16:9
■ 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

Audio

■ Compression format	AC-3 per ATSC A/52A, MPEG-1 layer 2, MPEG4 part 3

Graphics

■ Colors	24 bit color w. 8 bit alpha blend
■ Overlay	Partial / fullover analog
■ Audio language	Stereo and SAP audio supported
■ Loader	Full code SW download w image authentication

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

■ Power input	5 Volt DC
■ RF input	F type connector
■ RF output	F-type connector - Channel 3/4 only
■ HDMI port (with HDCP)	
■ Channel 3/4 switch	Located on back panel

General Data

■ Product certification	UL and FCC
■ MTBF	> 100,000 hours.
■ Operating temp range	+5°C to +45°C
■ DC pack	100-120V~ @ 60 Hz
	5 VDC @ 1.2 A
■ Power consumption	Max 10W (AC power)
■ Dimensions	4.4" x 3.2" x 0.8"
	(112 mm x 81 mm x 20 mm)

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