



Video

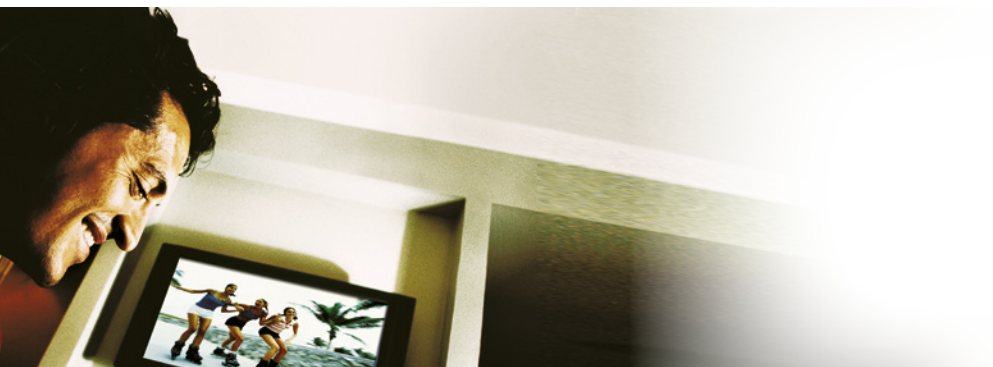
Access Platform & Gateways

# DCI1000 - Enhanced Cable TV Adapter

# THOMSON



MULTIPURPOSE ENTRY LEVEL CABLE DECODER



Cable

## KEY CHARACTERISTICS:

- Entry level receiver/decoder, broadly deployed world-wide
- Compliant with open standards (DVB, multiple conditional access systems, ..)
- Fully featured and intuitive User Interface

## BENEFITS:

- Ideal fit for a low-cost analog to digital transition
- Increased ARPU / lower churn with interactivity option

## FEATURES:

- Access to free TV and pay-TV services
- User friendly channel surfing features
- Support for broadcast interactivity
- Compact form factor for user comfort
- Living-room or second-room terminal
- Optional 2-way interactivity with low-bit rate telco modem

**THOMSON**  
images & beyond



Video

Access Platform &amp; Gateways

# DCI1000 - Enhanced Cable TV Adapter

## Technical Specifications

### BROADCAST CHANNEL INTERFACE

Modulation	64, 128, 256-QAM (ITU-J83 Annex A)
Symbol rate	3.5 to 6.9 Msymb/s (ITU-J83 Annex A)
Channel bandwidth	6(*) / 8 MHz
Frequency range	96-862 MHz

### MPEG VIDEO DECODER

Standard	ISO13818-2 (MPEG-2)
Profile	MPEG-2 Main Profile @ Main Level
Supported bit rate	Variable, up to 15 Mbps
Aspect ratio	4:3, 16:9, Pan & Scan, letter box
Video Scaling	1:4, 1:16, 9:64

### OSD

Colours	16 / 256 colours
Resolution	2 to 8 bits per pixel
Overlay	MPEG stills/live image insertion Partial / full over analogue video

### MPEG AUDIO DECODER

Standard	ISO 11172-3 / ISO 13818-3 (MPEG) Dolby Digital (AC3)
Decompression	MPEG Layers 1, 2 (Mono, Dual Channel, Joint Stereo, Stereo) Dolby Digital down-mix to stereo
SPDIF audio output format	PCM (decompressed stereo) Compressed Dolby digital (5.1)

### SYSTEM RESOURCES

Processor	32-bit RISC / 166 MHz
System RAM	From 4 Mbytes to 12 Mbytes
Video/OSD RAM	4/8 Mbytes
FLASH	4/8 Mbytes

### LOADER

Full code software download mechanism  
Authentication of downloaded material

### FRONT PANEL

3 LEDs  
No key  
Infra-red reception window

### REMOTE CONTROL PROTOCOLS

R2000 (Thomson)  
NEC (\*)

### OTHER

Hardware support for set-top box pairing/mating

(\*) Can be supported as option

### SOFTWARE

Middleware solutions	OpenTV™ Core 1.0 - THOMSON control task for OpenTV Core NDS' MediaHighway™
Access control	CONAX™(*), MEDIAGUARD™(*), NAGRAVISION™, VIACCESS™, IRDETO™(*), VIDEOGUARD™(*)

### THOMSON look & feel (with OpenTV middleware):

Set-up menu	Automatic channel installation, diagnosis, decoder configuration, parental control
Banner feature	Basic & virtual zapping with display of current / next event details, shortcut icons info
Mini-guide	Channel list scrolling with resized-video preview Management of favorite lists
Languages	Multilingual user interface Multilingual audio Multilingual signaling supported

### Protocols / standards:

TCP/IP - PPP  
EN 300 472 teletext re-insertion in the composite video signal  
EN 300 472 teletext and subtitling decoding  
EN 300 743 graphic subtitling decoding (\*)

### INTERFACES

Mains input connector	9 Volt – DC input
RF input	IEC-type, female or F type
RF output	IEC-type, male or F type (loopthrough)
SCART socket	via 10-pin mini-DIN (with RGB output)
Audio/video	via triple-jack stereo audio and video outputs
Digital Audio	SPDIF audio output (optical)
PSTN modem port	RJ-11
Smart card reader	1 slot (back panel), ISO 7816 1, 2 & 3

### GENERAL DATA

Safety and EMC regulations compliant (CE marking)	
MTBF	> 80000 hours.
Operating temperature range	+5°C to +45°C
Mains voltage (DC pack)	230 Volts +/- 10 % (48/62 Hz) 100-264 Volt (*)
Power consumption	Max. 12 W
Dimensions	147 x 152 x 58 mm

### ACCESSORIES

Remote control with batteries  
RF lead  
Audio/video lead  
DC pack  
PSTN lead (\*)

### OPTIONS

V23/V22/22bis PSTN modem (\*)  
RF modulator (UHF range) (standards : PAL B/G, I, K, D) (\*)  
Channel 3-4 RF remodulator (NTSC) (\*)