



Please Read This Entire Guide

Veillez lire entièrement ce guide

Bitte das gesamte Handbuch durchlesen

Sírvase leer completamente la presente guía

## Notices

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL  
A









## Safety Precautions



- 13 Protective Attachment Plug Ì The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction MansBT/F3 10..28 2ID 0-43(t).

## Safety Precautions

19 Servicing ⚠ Do not attempt to service this product yourself as opening or







## Safety Precautions







# Contents

Safety Precautions

vii

Rear Connector Panel .....	23
Connecting the Input/Output Signals .....	25
Connecting the RF Inputs .....	25
Connecting the ASI Input .....	25
Connecting the Video Outputs	

Setup Menu: Services .....	76
----------------------------	----



Chapter 6 Service and Maintenance 259

D9859 Transcoder Alarm Messages ..... 260  
    Alarms ..... 260  
    Warnings ..... 299  
Power Supply Replacement..... 317

Chapter 7 Customer Information 319

Appendix 14 Transcoder Alarm Messages ..... 317

IP

## About This Manual

### Objective

This manual describes how to install, use and maintain the Cisco D9859 Advanced Receiver Transcoder.

Note: The manual describes all available options for the D9859 transcoder. Your D9859 transcoder may only have some of the features described in this manual.

### Audience

The audience of this manual includes users (operators) and service personnel who are responsible for the installation, configuration, operation, monitoring and service of the D9859 transcoder.







## D9859 Advanced Receiver Transcoder

The Cisco D9859 Advanced Receiver Transcoder extends the distribution options for MPEG-4 Advanced Video Coding (AVC) high definition from solely MPEG-4

































## Setting the DPM Mode

A program can be set to one of four Digital Program Mapping (DPM) modes, either













Connector	Description	Type
Composite Video Outputs	CVBS 1 and CVBS 2 provide two identical SD composite video outputs for monitoring applications.	BNC









Note: A Normally closed



## Setting Admin User Privileges via a Telnet/SSH Connection





















---

LCD Setting	Description
-------------	-------------











Status Menu: General

Menu Item	Description	Parameters
Input	Indicates the currently selected input source.	RF1 to RF4, or ASI
Status	Indicates whether the input signal is ITf1-20(r.f1 0 0 1 226( )-434n59291t9 508.46 198	























## Setup Menu

To view the Setup menu from the Main menu, press the RIGHT arrow key once and the SELECT key. The Setup menu is split into eight sections: Administration, TS Input, IP, Services, Outputs, CA, Alarms/Warnings, and Noise Cutoff. For instructions on how to select and store settings, see















Menu Item







Menu Item	Description
-----------	-------------



Description

Parameters



The IP menu has the following strh/Artifact <</Attached [/Top]/TyN

Menu Item









Menu Item

- 2 In the admin command prompt, type `ipal tcp_list` for a list of TCPs>omnd o smnt































Cueing

Menu Item	Description	Parameters
-----------	-------------	------------













Menu Item	Description	Parameters
Config Type	Indicates the current DPM configuration change by a user after changing the Output Mode.	Edited by User - DPM changes were made. Unmodified - No changes were made after setting a new Output Mode. Auto Re-Mapped - Output map changed automatically to fix the output channel or PID conflicts at the time of setup. Changed by Uplink - DPM output changes were initiated by an encoder.

























- 5 Use the RIGHT arrow key to move to the right and select PID to display the detailed menu level.
- 6 Configure the input to output channel mapping. Video and PCR can be output

Parameter	Description
RST	Pass
TOT	Pass
DIT	Pass
SIT	Pass



Chapter 4 Front Panel Operation

Transcode

Menu Item	Description
-----------	-------------

































Menu Item	Description
-----------	-------------











Menu Item

























- 5 In the Tuning area, enter the current operating downlink frequency used by the transcoder for tuning the received digital signal in the Downlink Frequency field. You can enter a value in the range from 0.0 to 15.0 GHz.
- 6 In the Symbol Rate

- 15 In the Crossover field, enter the crossover frequency for RF10









Settin















## Configuring the Disaster Recovery Settings

The disaster recovery settings allow you to configure the search path when a disaster occurs. By default, the disaster recovery feature is enabled. For more information on disaster recovery, see [Disaster Recovery Settings](#) (on page 6)





## Viewing the Disaster Recovery Status































## Setting up Subtitles

1







- c If PMT Order is selected, you must set the PMT order for each audio (None, AUD1 to AUD64). You cannot select the same PID for both audio devices. If you select the same instance of an audio PID for one of the audio devices, the other audio device PID instance will automatically increment by one. For example, Audio 1 is set to AUD1 and Audio 2 is set to AUD2. If you change Audio 1 source to AUD2, the Audio 2 source will automatically change to AUD3 to resolve the conflict.

3

























- 3 From the Enable Fixed Output drop-down list, choose Yes for the DPM to assign new values for all the output channels and PIDs according to the Fixed Output











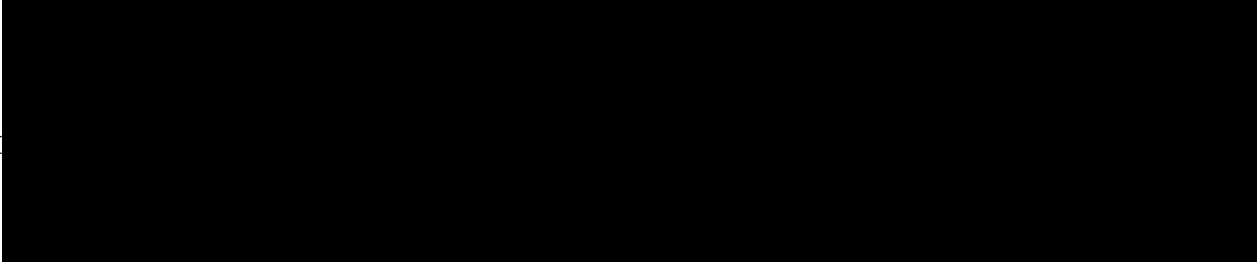


































































5 In the Gateway Address







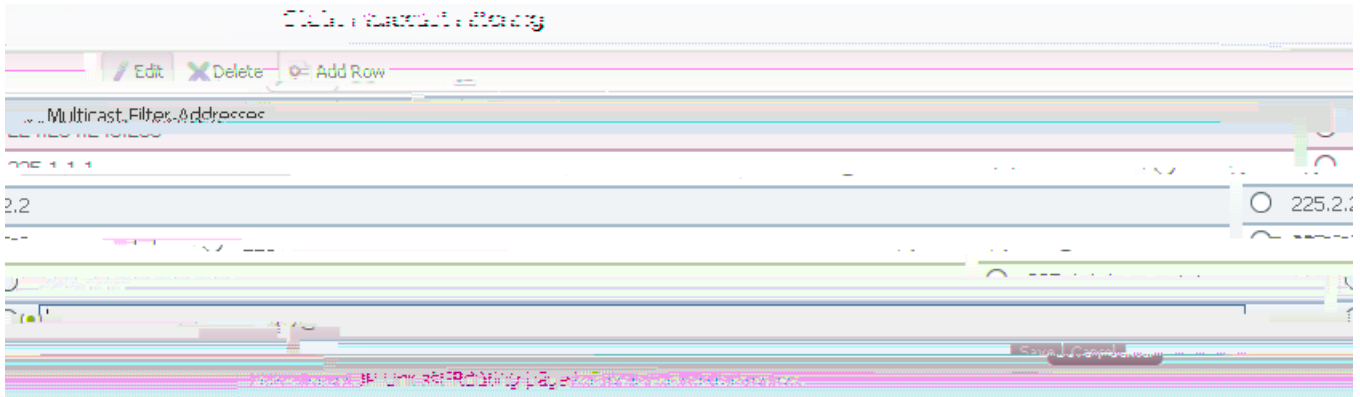






To Add a Static Multicast Filtering

- 1 Click Add Row in the Static Multicast Filtering table.



- 2 Type the IP Address that sets the destination for multicast MPE data, in the range from 224.0.0.0 to 239.255.255.255.

Note: If MPE Data Filter Mode is set to Forw





































- 7 Click the Export Device Settings & Transport Network Information radio











## Configuring Lock Level Settings





Chapter





[Viewing Support Information](#)













Alarm

Alarm	Message Type	Message	Cause/Remedy
-------	-----------------	---------	--------------











Alarm

Message  
Type



Alarm

Message  
Type

Message

Cause/Remedy



Alarm

Message  
Type

Message

Cause/Remedy







Alarm	Message Type
-------	-----------------

Alarm



Alarm

Message  
Type

Message

Cause/Remedy

---

Alarm	Message Type	Message	Cause/Remedy	Description	Severity	ID
-------	-----------------	---------	--------------	-------------	----------	----



Alarm	Message Type	Message	Cause/Remedy	Description	Severity	ID
-------	-----------------	---------	--------------	-------------	----------	----





Alarm





Alarm

Alarm	Message Type	Message	Cause/Remedy	Description	Severity
-------	-----------------	---------	--------------	-------------	----------

Alarm

Message  
Type

Message

Cause/Remedy

Description

Severity







Alarm	Message Type	Message	Cause/Remedy	Description	Severity
-------	-----------------	---------	--------------	-------------	----------





Alarm





Alarm	Message Type	Message	Cause/Remedy
-------	-----------------	---------	--------------



Alarm

Alarm	Message Type	Message	Cause/Remedy	Description	Severity	ID
Xcode Load Status	Set	Failed on PE(s): x,y,z	<p>Cause: Transcoder chip is not functional. This is a possible hardware issue.</p> <p>Remedy: Reboot the unit. If the issue is intermittent, the condition may be cleared by the reboot.</p>			

Alarm



Warning	Message Type	Message	Cause/Remedy	Description	ID
Transcoding Condition	Clear	Transcoding config operational			









Warning

Message  
Type

Message

Cause/Remedy

Description

Warning



Warning	Message Type	Message	Cause/Remedy	Description	ID
CAT timeout #	Set	CAT is lost	Cause: Uplink is not sending or is sending intermittently.		

---

Warning

Message  
Type

Message

Cause/Remedy

Description

ID











Warning

















## L-Band Input and Processing

### General

#### Parameter

## LNB Power and Control

Parameter	Specification
Voltage (RF1 only, RF2 to RF4 do not have LNB supply)	13 V Vertical/circular right, 18 V Horizontal/circular left Off
Current	400 mA maxim





## Video Inputs/Outputs and Processing

### General

Parameter	Specification
-----------	---------------



Appendix A  
Technical Specifications

Item









## Appendix A



Appendix A  
Technical Specifications

Item	Specification
------	---------------

# Power and General Specifications

## General

Item	Specification
------	---------------

## Mechanical

Item	Specification
Height	1 RU (1.75 in.) (4.4 cm)
Width	19.0 in. (48.3 cm)
Depth	20.5 in. (52.1 cm)

Weight





Appendix B  
Default Settings and Lock Levels







## Trap Destinations

Parameter	Default	Lock Level
-----------	---------	------------









Appendix B  
Default Settings and Lock Levels

Parameter	Default	Lock Level
Min IP/s	0	2
TOS		

Factory Default Settings and Lock Levels

Parameter	Default	Lock Level
CAT	Pass	2

Appendix B  
Default Settings and Lock Levels

Parameter	Default	Lock Level
HD/SD 3:2 Pulldown	Disabled	0

Factory Default Settings and Lock Levels

Parameter	Default	Lock Level
SUBT	8	

Appendix B  
Default Settings and Lock Levels



Appendix B  
Default Settings and Lock Levels





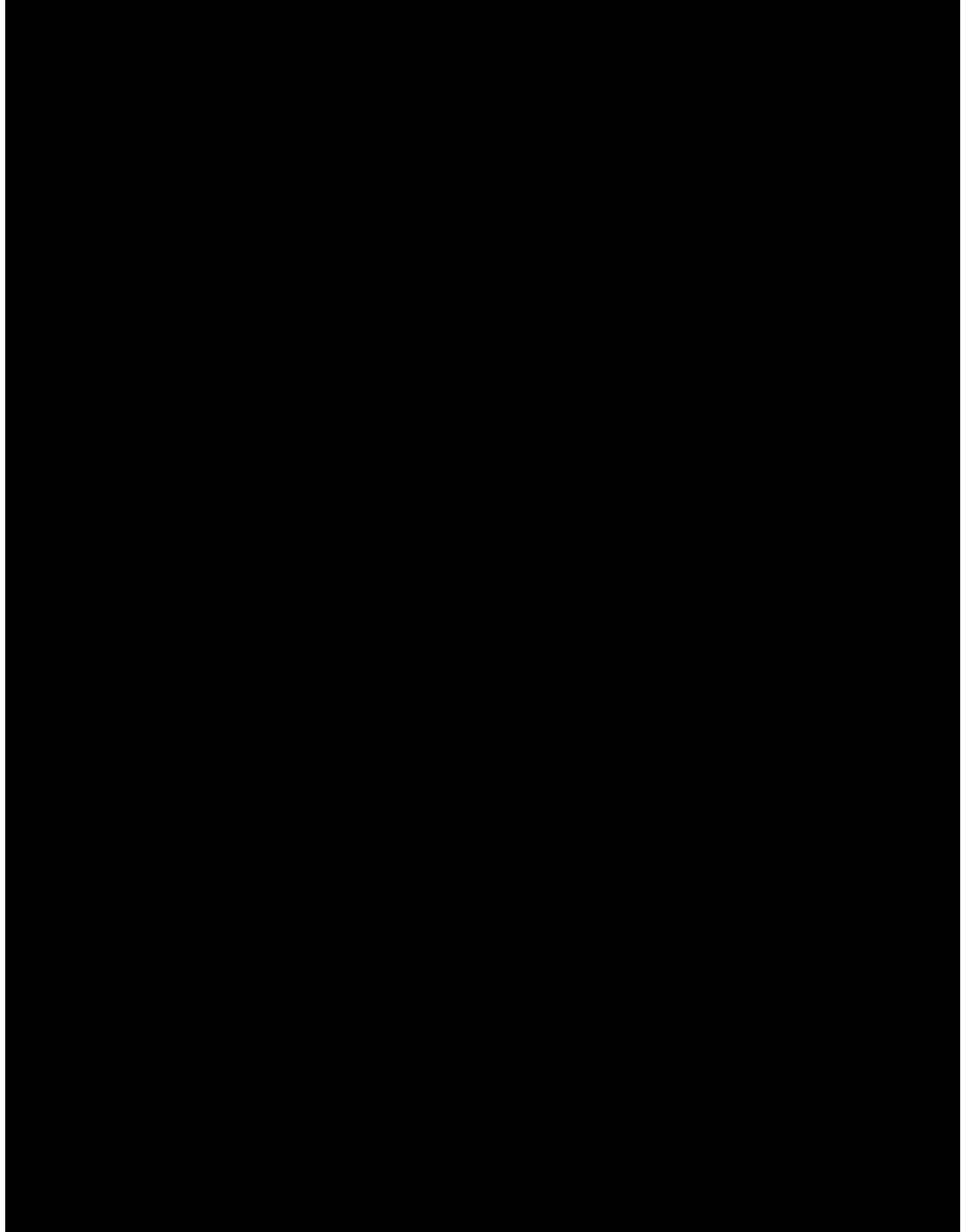








## Declaration of Conformity









**A**

Cdqw"Ogpw"É"346

Cdqw"vjg"Htqp"Rcpgr"É"56

**D**

D9859 Advancg f" Tgegkxgt" V tcpueq fgt"É"4  
 F ; : 7 ; "Ogpwu"É"35 :  
 F ; : 7 ; "Uwo o ct { " Qxgtxkgy"É"357  
 F ; : 7 ; "V tcpueq fgt" Cñct o " Oguuc i gu" É"482  
 F ; : 7 ; "Y gd" IWK" Gpxktqp o gpv"É"362  
 Fgenctcvkqp"qh"Eqphqt o kv { "É"57 :  
 Fgeqfg"É" : 9."566  
 Fngvki" c"Rtqitc o "htq o "v jg"Rtqitc o "Gpvt { "É"64  
 Deleting a User É"53  
 Fkcipquvkeu" Ogpw"É"34 ;  
 Fkikvcn"Rtqitc o "Fkuvtkdwwkqp"É"4  
 Fkucuvgt" Tgeqxtg { "É"8."562  
 Fqypñc fki" c"Uqhv yctg" Nkegpug"É"47 :  
 Fqypñc fki" v jg"Uqhv yctg" Cr rnkecvkqp"É"47 :  
 DPM - CUKI OQKR"É"568  
 DPM - Inqdcn"É"322  
 DPM Default Settings for Different Output  
     Modes É"573  
 DVB-CUK" Qw r wu"É"6  
 DVB-U" GdlPq" \*EIP+" Tcvkq"É"546  
 DVB-S/DVB-U4" É"545  
 DVB-S2 Error Rate Performance Es/No (C/N)  
     Tcvkq"É"546

**E**

Gpxktqp o gpv"É"558  
 Gv jgtpgv" Fvc" Kpv gthceg"É"555  
 Gv jgtpgv" Opcpig o gpv" Kpv gthceg"É"555

**F**

Factory Default Settings and Lock Levelu"É"55 :  
 Htqp v" Rcp gn"NGFu"É"56  
 Htqp v" Rcp gn"Qrgtcvkqp"É"55

**G**

Igggtcn"É"346."544."548."557  
 Inqdcn"É"344  
 Inqdcn" Uvcvwu"É"74."76  
 Itqwp fki"É"43

**H**







