



User guide

891073D

| GB |

DVB-S/S2 module - 492020



TRIAX - your ultimate connection

Contents

Contents

Disposal	3
Box content	3
DVB-S module	3
Labels	4
Cover removal	4
Module installation	
Module removal	
Input cable installation	
Status LED's	7
Log in	
Input window	ğ
Configuration of input module	10
Status information.	. 14
Delete setup	. 16
Save configuration	. 10
Manufacturer	. 17
Your notes	. 19

Disposal



Within in the European Union this label indicates that the product cannot be disposed of with the general household waste. Neither the headend nor the input and output modules can be disposed of with the general household waste.

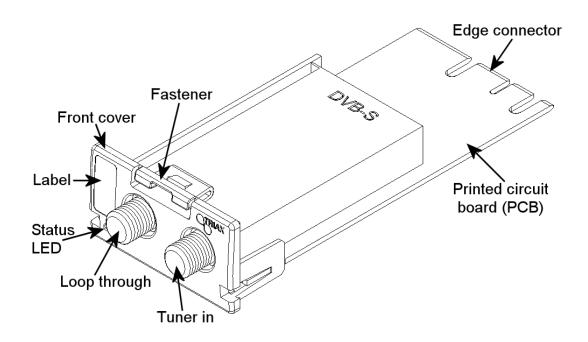
For proper treatment and recycling of old products, please take them to designated collection points in accordance with your national legislation.

Box content A new input module is wrapped in antistatic bubble wrap and packed in a cardboard box when you receive it. Included in the box is a user guide instructing you in how to use the TDX

Included in the box is a user guide instructing you in how to use the TDX Service Tool to configure the module

DVB-S module The DVB-S module is one of the input modules that you can install in the input section of your TDX headend unit.

Below you can see an illustrated description of a DVB-S module.



Labels

A label is placed on the input module where you can write the information regarding the configuration of the module.

Besides the information that you write on the label, the module type and part number are also displayed on the label.

Note The coloured part at the top of the label informs you of the module type. Each type of module is allocated a unique coloured label.



On the bottom of the module you will find a label with the bar code and a serial number printed on it.

- **Cover removal** Before you can install a DVB-S module in the input section you have to remove the cover that protects the module slot.
 - 1. Press the fastener downwards
 - 2. Pull the cover outwards to remove it



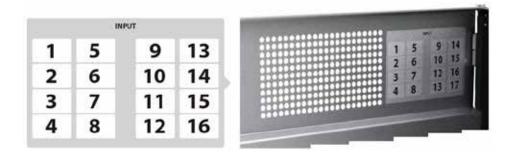
You do not need tools to remove the covers, just use your fingers.

For EMC and cooling reasons only remove covers from the module slots that you want to insert modules into.

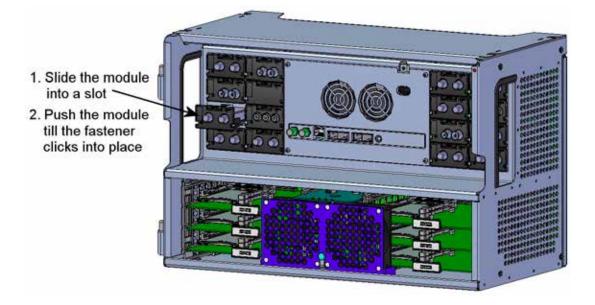
Module installation

It is optional in which slots you place the individual input modules in the input section. For convenience each slot has been given a number, and an overview of the slot numbers has been placed on the inside of the door of each unit.

Note Slot no. 1 is placed in the top left-hand corner of the input section when you face the front of the unit.



You install an input module by sliding the module into a module slot in the input section of the headend unit and push it till the module clicks into place.



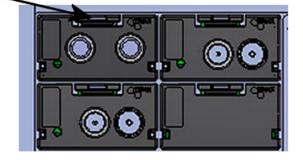
Note You can use hot swapping when you insert an input module into or remove an input module from the TDX system.

Basics

Module removal

It is possible to remove an input module from a module slot without using any tools, just use your fingers to press the fastener downwards and then pull the module outwards to remove it from the module slot..

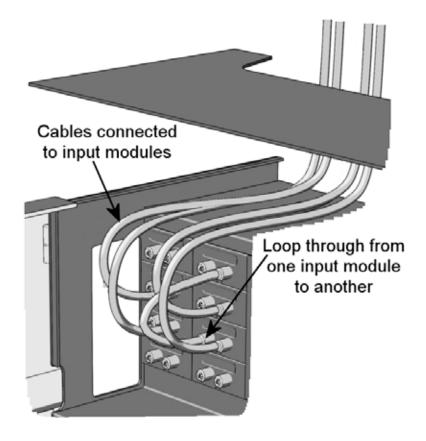
- 1. Press the fastener downwards
- 2. Pull the module outwards to remove it from the module slot



Input cable installation

When all the required input modules have been installed you can connect the input signal cables one by one to the input modules.

It is also possible to make a loop through from one input module to another.



Basics

Status LED's

There is a status LED on the front of each module. The LED indicates whether the module has locked on to a frequency or needs to be configured.

Green - flashing	The module has not been configured yet.
Green	No errors and the module is locked to the frequency.
Red	Error and the module is not locked to the frequency.
No colour	Power has not been switched on.



When you update the software of a module the status LED provides you with information about the updating process.

Orange Boot loader state.

Temporary off Initiation of the software update.

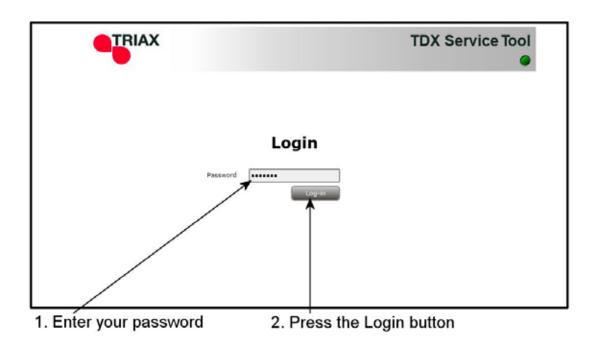
Temporary green Every time the modules receives a valid data package. Repeated until the update is completed without errors.

Red

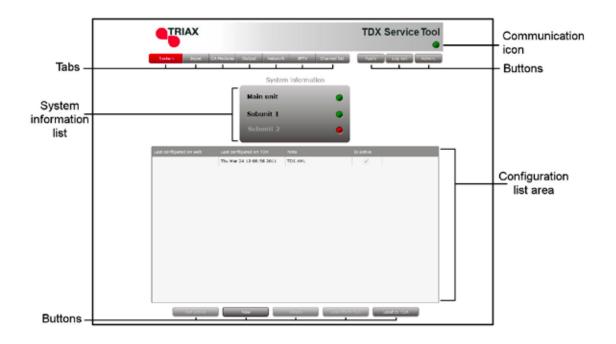
Software update failed.

Log in

When you have loaded the TDX Service Tool from the TDX headend system to your laptop/computer the Login window of TDX Service Tool is displayed.



When you have pressed the Log in button the System window is displayed.



Input window

Click the Input tab in the TDX Service Tool to display the Input window.

The first time you display the Input window in a new configuration the module list only displays the number and type of input modules that you have inserted in the main and subunits.

				TDX S	ervice Tool	
Tabs ——	System 3rput CA Modules	Durput Network 3P7	V Channel list	Asply	Log out Admin.	Buttons
_	Slot HW installed	Frequency	Network ID/15 ID	Status		
	 Main unit (10 items) 					
	 DVB-S input configured as NONE 	6 KO12	N/A	Not configured	Setup Delete	-h
	2 DVB-S input configured as NONE	0 KHz	N/A	Not configured	Setup Delete	
	3 DVB-S input configured as NONE	0 KHz	N/A	Not configured	Setup Delete	
	4 DVB-S input configured as NONE	0 KHz	N/A	Not configured	Setup Delete	
	5 DVB-S input configured as NONE	0 KOIZ	N/A	Not configured	Setup Delete	
Module –	5 DVB-S input configured as NONE	0 KO12	N/A	Not configured	Sittip Delete	Setup
list	7 DVB-S input configured as NONE	0 KHz	N/A	Not configured	Setup Delete	buttons
iist	8 DVB-T input configured as NONE	0 KH2	N/A	Not configured	Selup Delete	buttons
	9 DVB-S input configured as NONE	0 KHz	N/A	Not configured	Setup Delete	
	10 DVD-T input configured as NONE	C KOLE	N/A	Not configured	Setup Delete	
	 Unit: 1 (2 items) 					
	 DVB-S input configured as NONE 		N/A	Not configured	Setup Delete	
	 DVB-S input configured as NONE 	0 KH2	N/A	hot configured	Setup Delite	U

You have to configure the input modules individually.

To display the Configuration window, click the Setup button of the DVB-S input module you want to configure.

na) monfigured as NONE configured as NONE configured as NONE configured as NONE	D XPIZ	Network 10/75 10	Not configured		Click the Setu
configured as NONE configured as NONE configured as NONE	D KPIT		and the second se	THUR SHOW	Click the Setu
configured as NONE configured as NONE	D KPIT	N/A	and the second se	THE PERSON NAMES OF TAXABLE PARTY.	
configured as NONE			Not configured	STATUS STATUS	button
sector and as prime		N/A	hot configured	CONTRA COUNTRA	
COLUMN TO BE INCOME.	0 XHz	N/A	Not configured	Samp Distant	
unfigured as NGNE	01018	N/A	test configured	COLUMN COLUMN	
configured as NONE	G KREE	AVA.	Not configured	Tente (Tente)	
sconfigured as NONE	0 1012	N/A	Not configured	STATES STATES	
configured as NONE	0 KHz	N/A	Not configured.	South Street	
configured as NONE	0 kHz	N/A	Not configured	CONTRACTOR (CONTRACT)	
sonigured as BONE	0 King	N/A	Not configured	Telen	
configured as NONE	0.4942	AVA .	text configured	Section Sections	
configured as NONE	0 k04z	N/A	Not configured	Tento Teleta	
	configured as NOAE configured as NOAE configured as NOAE configured as NOAE	conduced as NONE 0 Kitz configured as NONE 0 Kitz	configured as ROME 0 kHz N/A	configured as ROME 0 KHz N/A Nut configured configured as ROME 0 KHz N/A Nut configured	Note N/A Note configured pund as NOME D Mits N/A Not configured pund as NOME D Mits N/A Not configured pund as NOME D Mits N/A Not configured pund as NOME D Mits D Mits <thd mits<="" th=""> D Mits <thd mits<="" th=""> <thd mits<="" th=""> <thd mits<="" th=""></thd></thd></thd></thd>

Configuration of input module

		TDX Service Tool	
Tabs ———	System Signal CA Nuclules Dudgut	Norwell 1977 Channel Les Agely Logieus Admin.	Buttons
Back button	DVB-S Input setup	AT	Select/deselect
Unit and slot ID -	Configuration	Secures Stores StD Selected services.	buttoris
Configuration	Property (NHz) D Polarity DV off +		
fields	Symbol rate		Service list
DiSEqC button —	DidiliqC rettinge		area
Update button —			
Submit button —			
Submit button	¥		
	Status information		μ
Status information		Veguency TS symbolizes SW-Revision 5(A 1.9.1.17013	
area]

The first time the TDX Service Tool displays the Configuration window for an input module in a new configuration, the configuration fields and the list of services will be empty or display default values.

Frequency Enter the desired frequency in MHz in this field.

- PolarityTo select the required polarity, click the arrow to the
right of the Polarity field to open the drop-down list
with the polarities you can choose from.
Select the polarity you want to use.
 - **Note** In connection with a loop through from one DVB-S module to another DVB-S module, you have to set the polarity of the second module to " 0V Off".

Symbol rate Enter the desired symbol rate in this field.

If you have connected a Digital Sequence Equipment Control (DiSEqC) switch to the DVB-S module in question you have to select which satellite position you want to use.

	TRIAX		TDX Service Tool
 Enter frequency — Select polarity — Enter symbol rate – Click the DiSEqC button 	System Insul Ck Hooses Out Bash DVB-S. Input setup Unt 1 - Set 1 Configuration Frequency (Mtg) 10934 Polarity 18V Horizontal Symbol rate 25000 Upcate	Aput Network DPTV Charved in	A Apply Log out Athen, A Apply Log out Athen, A T None Tures SID Selected services
	Status information Status Bit error rate Not locked N/A	Submit Locked frequency TS symbolisite N/A N/A	SW-Revision 1.5.1.17013

DiSEqC button Click the DiSEqC settings button to open the DiSEqC settings window.

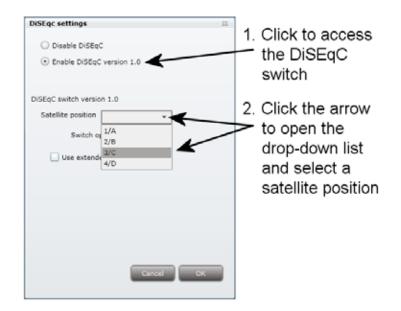
DiSEqc settings	23
💿 Disable DiSEqC	
Enable DiSEqC version 1.0	
Сапсе ОК	

As default the DiSEqC switch is disabled.

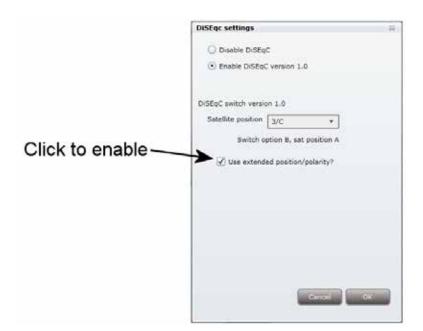
In the DiSEqC settings window click the Enable DiS-EqC version 1.0 radio button to access the DiSEqC switch.

To select the required satellite position, click the arrow to the right of the Satellite position field to open the drop-down list with the satellite positions you can choose from.

Select the satellite position you want to use.



In case your DiSEqC switch does not support vertical (13 volts) / horizontal (18 volts) polarisation and High Band / Low Band frequencies, click the Use extended position/polarity check box to enable up to 16 positions.



Click OK to return to the Configuration window.

12

Click the Update button to enter the information into the headend system.

		TDX Service Tool
	DVB-S Input setup Unit 1 - Slot 1 Configuration Prevency (MHz) Polarity 18/ Horizontal Symbol rate	Network IPTV Channellist Apply Log put Admin.
Click the Update button	Status information	
	Status Bit error rate Locked Not locked N/A N/A	Vrequency TS symboliste SW-Revision NiA 1.9.1.17013

As a result a list of available services is displayed in the services list area.

Sydem	Input CA Nodules	Ovgut Nations	PTV Channel		FEOTY .	1.000	
	-S input setup						-
			Services	Tran		SID	Selected a
Configuration			CANAL+ FILM HD	TV	5	1407	0
Frequency (MHz)	10934		CANAL+ FILM HD	TV.	\$	3306	
Polenty	18V Horizontal		CANAL+ SPORT HD	TV	\$	1404	
	and the section		CANAL+ SPORT HD	τv	5	1408	
Symbol rate	25000		SVT1 HD	TV	\$	1405	
	C		5VT1 HD	TV	5	3801	
	DVFCqC settings		SVT2 HD	TV.	\$	1409	
	Lodata		SVT2 HD	TV		1410	
		Subint					
Status informa	tion	(instance)					

To select services you can either select all services in the service list area by clicking the All button at the top of the list or select the services one by one clicking the square to the right of the services you want to make available in your TDX service pool.

System		Output Network	IPTV Charriel		DX	Serv	ice Too	Click the All butto to select all the services in the list
Bick DVB Main o	-S input setup unit - Siet 3		Services	Types		540 54	_	
Configuration			CANAL+ FILM HD	TV	5	1407		
Frequency (MHz)	10934	-	CANAL+ FILM HD	TV	e	3306	0	
		_	CANAL+ SPORT HD	TV		1404		
Polarity	18V Horizontal	•	CANAL+ SPORT HD	TV	5	1408		
Symbol rate	25000		S/T1 HO	TV	5	1406	24	
			SVT1 HD	TV	5	3801		Click the square
	DiSEqC sottings		SVT2 HO	τv	5	1409		one by one to
	- Unifabre		SVT2 HD	TV	5	1410		
	_	Submit						select the servic one by one
Status informat								 1
Status Locked	Bit error rate 0	Locked frequency 10933	TS symbolrate 24996	SW-Revisio 1.9.1.1701				

Note By clicking one of those column headlines that are underlined in the service list area you can sort the list into alphabetical or numerical order depending on which column headline you click.

When you have selected the services you want, click the Submit button to enter this information into the TDX system and return to the Input window.

Now the selected services are available in the TDX service pool.

Γ		x			Т	DX	Service Tool
		-S input setup	Output Network	3PTV Channel I	ist A	siy 🚺	Log out Admin.
	Main y	init - Slot 3		Services	Dypen	510	All None Selected services
	Configuration			CANAL+ FILM HD	TV	_	407
I	Frequency (MHz)	10034		CANAL+ FILM HD	TV		306 🖌
I				CANAL + SPORT HD	TV		404
	Folarty	18V Horizontal •	•	CANAL + SPORT HD	TV		408
lick the Submit	Symbol rate	25000		SVT1 HD	TV		406
utton to save			-	SVT1 HD	TV		801
		DISEQC settings		SVT2 HD	τv	\$ 1	409
our selections		Update		SVT2 HD	TV	\$ 1	410
			A				
	Status informat Status	Bit error rate	Locked frequency	TS symbolrate	Sill-Revisio	n	
	Locked	0	10933	24996	1.9.1.1701	3	

Remember to click the Apply button in the upper right-hand corner to save new settings in the configuration.

Note When you display the Configuration window for an input module that has been configured, all fields are filled in and services have been selected.

If you want to change the existing frequency, polarity, services just follow the same procedure as when you configure an input module for the very first time.

Status information Status information is placed at the bottom of the Configuration window. The information displayed in the configuration window of a DVB-S module includes the status of the module, bit error rate, locked frequency, TS symbol rate and revision of software.

Status	Informs you whether the input module is locked or not.
Bit error rate	Informs you of the rate at which errors occur in the transmission.
Locked frequency	Displays the actual frequency that the input module has locked into.
TS symbol rate	Displays the actual symbol rate.
SW revision	Displays the software version of the input module.

	AX				TD)	(Se	rvice Tool
System		Output Network	IPTV Channel		lociy		out Admin.
Back D/	/B-S input setup n unit - Slot 3						All None
Configuratio	in .		Services	Types	_	SID	Selected services
Frequency (MH	10934	1	CANAL+ FILM HD CANAL+ FILM HD	TV TV	5	1407	
rietheit's (wh	10934	_	CANAL+ SPORT HD	TV	5	1404	×
Polarity	18V Horizontal	•	CANAL+ SPORT HD	TV	5	1408	
Symbol rate	25000		SVT1 HD	TV	5	1406	2
		_	SVT1 HD	TV	5	3801	
	DiSEqC settings		SVT2 HD	TV	۰ ۶	1409	2
			SVT2 HD	TV	\$	1410	
	_	Submit					
Status inform	ation						
rmation	Bit error rate 0	Locked frequency 10933	TS symbolrate 24996	SW-Revis 1.9.1.170			

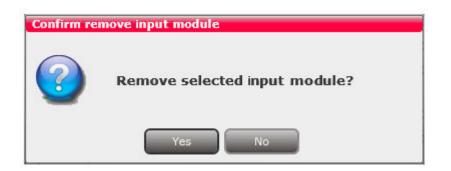
When you return to the Input window the configuration of the input module is displayed in the module list.

System Input. DA Hoduka	Culput feeboork (PT)	Stendler,	Astr	Log tot	
Shi HW installed	Frequency	Network ID/75 ID	Station		
4 Main unit (10 items)	1 2222700/00	20	138010		
t OVB-S	10934 MHz	14	Locked	Input mod	
2 OVB-5 input cooligured as NONE		N/A	Not configured	that has b	eer
3 DVB-S nout configured as NONE		N/A	Not configured	States Street,	2000
4 DVB-5 oput configured to NONE		N/A.	Not configured	configured	1
B DV8-S reput configured as NONE.		76/A	Not configured		
è DVB-5 riput configured is NONE		N/A	Not configured	And and a second second	
7 DVB-S nput configured as NONE		70/A	Not configured	Contraction of Contra	
B DVB-T nput configured to NONE		N/A	Not configured	Manual Manual	
9 DVB-S riput configured as NONE		N/A	Not configured	Street St	
10 DVB-T rout configured as NONE # Unit: 1 (2 items)	0 KHZ	N/A	Not configured	Minute Minute	
1 OV8-5 input configured is NONE	IT also	N/A	Not configured	SECOND SECOND	
2 DVB-S input configured is NONE		N/A	Not configured	Second Second	

Now you can continue to configure the other input modules one by one, following the procedure described on the previous pages.

Delete setup If you want to remove an input module and the associated configuration you can use the Delete button of the module in question in the Input window.

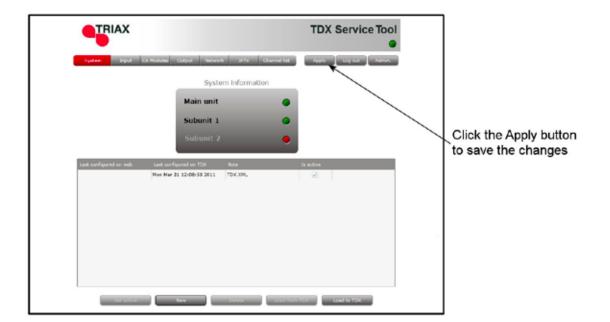
Click the Delete button of the DVB-S input module you want to remove. A message window is displayed asking you to confirm that you want to remove the input module.



Until you have removed the input module physically from the headend unit the module list will display a line with the writing in red.

						1
122010.00	d HW establish	Finance	Network EV/TS 30	TIMU		1
4 110	n unit (Ziteria)					SSE250 3505 - 35-
01.FU	DVR-S	12934 Illits	La.	(acked	Sector Street	The configuration
3	DVB-S	10903 RHs	49	Looked	التنتظ اجتنتنا	
3	DVB-5	11342 MHz	36	Locked	and the second second	Thas been deleted
	OVID-S input configured as NONE	0.000	N/A	Not configured		
. 8	DVB-S	11954 MMZ	39	Locked	(STREED) (STREED)	1
. 6	DVB-S	10773 MHz	41	Lacked	(STHIEF) (Deter)	1
17	DYB-5	100413898	11	Locked	Contract Contractor	1
- 8	DVII-T	546000 KPig	1001	Lacked	Same Same	1
. 9	DVB-5	10009 HHg	46	Looked	Section Sections	1
10	DVB-T	570000 KHg	1004	Locked	Contraction of the Contraction o	1
a 12%	n: 1.67 demi)					1
13	010-0	10403 MHs	B	Licked	Second Second	1
12	DVB-S	31235 MHz	54	Lacked	PERSONAL PROPERTY.	1

Save configuration An **important button** when you change your configuration of the headend system is the **Apply** button placed in the upper right-hand corner of the TDX Service Tool window.



ApplyWhenever you have made changes in your configuration,
"Apply" on the Apply button turns red to tell you that you
have unsaved changes that need to be saved.
Click the Apply button to save the changes. When chang-
es have been saved the "Apply" text looses the red colour.

WARNING - All unsaved changes will be lost in case of a power cut

Manufacturer

Manufacturer Dear Customer,

Should you require technical assistance in the event that your expert dealer is unable to help you, please contact us at:

Triax A/S Bjørnkærvej 3 8783 Hornsyld Denmark

Tel.: +45 76 82 22 00

triax@triax.dk www.triax.dk

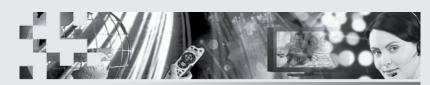
Your notes

Your notes



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TRIAX - your ultimate connection