

QPSK
SATELLITE RECEIVER
FOR PROFESSIONAL USE
DRX 3200 / 3210



USER MANUAL

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GENERAL

With the LCD display and front panel keypad, it is easy to adjust, operate and monitor. The rich software and hardware features together with DVB-S, MPEG2 and BISS compliance gives powerful performance.

After power loss, the device goes on its operation with the last settings. A programmable alarm output signals, when any of the alarm conditions occur. At the front panel there are LEDs indicating power, lock and alarm status. During the operation the LCD display shows the name of the current channel, presence of signal, video, audio and the BER value or the signal strength.

The device has a built-in cooling fan, so the units may be stacked on top of each other. Reliable software and hardware watchdog systems restart the system safely as any failure is detected. A keypad lock function is added against unwanted interventions by unauthorized persons.

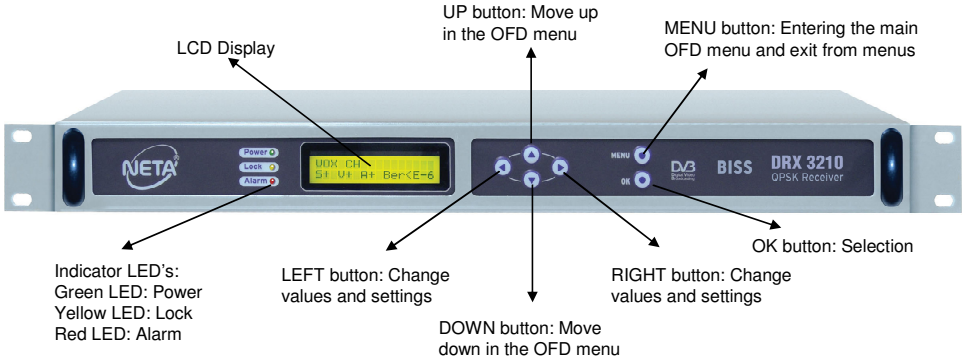
Please read this user manual completely before installing and operating the receiver.

SAFETY

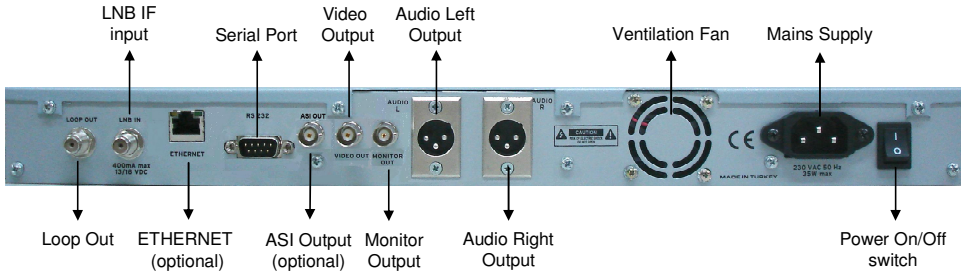


- No user-serviceable parts inside.
- There are some parts inside the unit carrying HIGH VOLTAGE that may injure you. Thus, do not insert anything into the ventilation holes.
- Small objects must be kept away from the ventilation holes of the receiver.
- For sufficient ventilation nothing should be placed closer than 10 cm around the unit.
- The ventilation should not be impeded by covering the ventilation openings with items.
- No heat sources or no naked flame sources should be placed on or under the unit.
- The receiver shall not be exposed to dripping or splashing. No objects containing liquid shall be placed on the unit. In case of any accidental spillage or the splash of the liquid onto the unit, unplug the receiver and call the qualified service.
- Cleaning: You may remove the dust on the unit (never use any liquid) only after unplugging the unit from mains outlet.
- Do not remove the cover, refer to qualified service.
- Your satellite receiver is designed only for indoor use and moderate climates. Do not install the unit in humid, dusty, too hot, too cold or vibrating places and protect it against rain or direct sunlight.
- During intended use ensure that the mains plug is fully inserted into the wall socket.
- Do not overload a wall outlet or extension cord as this may result in fire and electric shock.
- Do not connect any equipment not recommended to prevent your unit against a permanent damage or danger.
- Always unplug the unit from mains outlet before connecting or disconnecting any cable.

FRONT PANEL



REAR PANEL



FRONT PANEL CONTROLS

There are 3 LEDs on the front panel.

Green LED lights while power is on.

Yellow LED lights while signal is present.

Red LED flashes if any of the selected alarm conditions occur.

The 2 lines x 16-character LCD is used to set up and check reception.

The 6 buttons are used to enter setup values. The controls of the knobs are prohibited after the first 5 minutes, against any unwanted intervention. “Keypad Locked” message is displayed if any of them is pressed.

FIRST INSTALLATION

After you make all connections, plug in the receiver to the mains outlet. DRX starts automatically. Following screen will appear on the LCD.

C	h	a	n	n	e	l			n	a	m	e					
S	+			V	+			A	+			1	.	6	E	-	3

C	h	a	n	n	e	l			n	a	m	e				
■	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□	□

First line is the channel name.

S+: Signal exists

S-: Signal does not exist

V+: Video exists

V-: Video does not exist

A+: Audio exists

A-: Audio does not exist

BER: Bit Error Rate is displayed as xE-y. It means that bit error rate is 10^y .

There are two different display modes.

In one mode you can monitor channel name, signal, video, audio, and the BER value, in the other mode you can monitor channel name and the signal strength. You can switch between the modes by using “OK” button.

KEYPAD LOCK / UNLOCK

5 minutes after, the unit is powered on, or none of the front panel buttons is pressed after unlock, the unit goes into button-lock mode. To unlock, press “OK” button once and press “MENU” button three times within short intervals. “OK” - “MENU” - “MENU” - “MENU”

QUICK SETTING

If you are using your device for the first time, please follow these short instructions below.

- 1 Select **Installation** submenu. Select LNB type. The options are Universal, Standard and C-Band.
Check local oscillator frequencies. They can be changed manually. Set 22KHz to Auto for Universal LNB. Select DiSeqC position (A, B, C or D) if the unit has to be operated in an IF distribution system.
- 2 Select **Parameters** submenu. Set Program settings. Freq. (Frequency), Polarity and S.Rate (symbol rate). Observe the yellow LED if it lights. Glowing LED shows that the signal is present.
- 3 Select **PID**'s or search transponder (select **TP Search** submenu, press “OK” button).
- 4 Select the program from the list. Press “MENU” button until the start-up page appears. This operation stores all the changes.

MENU ORGANISATION

➤ Parameters

- ◆ Chn Channel name: Use “OK” and “◀/▶” buttons for manual editing. It is also made automatically after **TP Search**.
- ◆ Freq. Reception frequency in MHz. Original satellite transmit frequency.
- ◆ Polarity Vertical or Horizontal
- ◆ S.Rate Symbol Rate

- **PID**
 - ◆ Video PID
 - ◆ Audio PID
 - ◆ Pcr PID
 - ◆ Txt PID

- **TP Search** Start search after Lock LED lights (Signal exists).

- **Audio Tracks** Shows existing audio tracks with numbers and short language descriptions. Select the language you want.

- **BISS Setup**
 - ◆ Mode Mode-0: Free to air Mode-1: BISS Mode-E: (optional)
 - ◆ SW Setup Enter 12 hex digits session word for decoding. (for Mode-1)
Use “◀”/“▶” and “OK” buttons.
 - ◆ ESW Setup Enter 16 hex digits session word for decoding. (for Mode-E)
Use “◀”/“▶” and “OK” buttons.

- **DVB Subtitle**
 - ◆ Subtitle It is used to display DVB subtitle.
 - ◆ Language Subtitle language that will be displayed.

- **Installation**
 - ◆ Audio Mode can be selected as Stereo, Left, Right and Mono.
Volume level can be selected between 0 and 31.
 - ◆ Video Level:100 (1Vpp video level default) 95 to 105 adjustable.
Blank: Video Blank keep last screen stored or displays blank screen if no signal. It is selected as On or Off.
System: Video system (PAL, NTSC or SECAM)
No Sig. Msg: It is selected as On or Off. When the signal is off “No Signal” message is displayed on the screen if it is selected as On.
 - ◆ LNB Settings LNB type can be selected as Universal, Standard or C Band.
Low Band: Low Band local oscillator frequency
High Band: High Band local oscillator frequency
22kHz: It is adjusted as On, Off or Auto.
DiSEqC: It is adjusted as A, B, C, D or Off.
Power: LNB power is set as On or Off.
 - ◆ Alarm Settings V. Patern: Yes or No. When alarm occurs, test pattern is displayed
Signal: Yes or No. When the signal is off the alarm occurs.
Video: Yes or No. When the video is off the alarm occurs.
Audio: Yes or No. When the sound is off the alarm occurs.
 - ◆ Language Select the desired language from the available list.
 - ◆ Info Current software version is displayed.
 - ◆ Reset Settings Are you sure? “OK”- Yes, “MENU”- Exit
Default settings are loaded if “OK” button is pressed.
 - ◆ Dynamic PMT It is selected as On or Off. PMT data is monitored and if any changes occur, PID’s are changed accordingly.
 - ◆ Baud Rate RS232 communication rate

- ◆ Frequency Range Tuner lock frequency range (1MHz, 2MHz, 3MHz, 4MHz, Auto)
 - ◆ Data Status: On or Off
PID: Data PID
Format: Data collection format
 - ◆ ASI Settings ASI output format setting, Burst or Byte mode is supported.
On or Off.
 - ◆ Ethernet IP Address: Network communicating parameter
Subnet Mask: Network communicating parameter
Gateway Address: Network communicating parameter
Port No: Network communicating port
DHCP: Determining option of the network parameters automatically
- **CI**
- ◆ Common Interface CAM module definition is displayed.

Note: These menu configurations will change depend on the product. Because some features are device specific. There is some detailed information for the menu features below and device specific menu options are explained with the device model name

USING OFD MENU

Press “MENU” button, the main menu (**Parameters, PID, TP Search, Audio Tracks, BISS Setup** (optional), **DVB Subtitle** (optional) and **Installation**) is displayed.

You can move the cursor (*) by using “▲”/“▼” buttons. Press “OK” button for sub menu selection. If you want to change any value, use “◀”/“▶” buttons. To change any numerical value, press “OK” button and change the numeric value at the cursor location by using “◀”/“▶” buttons. Press “OK” button to move the cursor to right by one digit.

As you exit from menus, changes are stored automatically.

CHANGING PROGRAM SETTINGS

If you want to change the program settings (Channel name, Frequency, Polarity, Symbol rate), go to **Parameters** submenu.

PARAMETERS

➤ Channel name

Press “OK” button, then a cursor will be displayed. Use “OK” button to move the cursor. You can change the character over the cursor by using “◀”/“▶” buttons. Press “MENU” button to confirm the entrance.

*	C	h	n	E	u	r	o	n	e	w	s				
	F	r	e	q	.						1	1	0	5	0

➤ Frequency, Polarity and Symbol Rate

By using this menu, you can set frequency, polarity and symbol rate values.

*	C	h	n	E	u	r	o	n	e	w	s				
	F	r	e	q	.						1	1	0	5	0

*	P	o	l	a	r	i	t	y					H	o	r
	S	.	R	a	t	e					2	7	5	0	0

CHANGING PID VALUES

If you want to set or change PID values manually, use **PID** menu.

➤ **Video PID, Audio PID, Pcr PID and Txt PID**

*	V	i	d	e	o		P	I	D			5	0	0
	A	u	d	i	o		P	I	D			5	0	1

*	P	c	r		P	I	D					5	0	0
	T	x	t		P	I	D					5	0	2

SEARCHING TRANSPONDER

➤ **TP Search**

After setting **Frequency**, **Polarity** and **S. Rate**, you can search the transponder. That way you can find all channels coming from that transponder. Move the cursor to **TP Search** menu and press “**OK**” button. “**Please wait**” message will be displayed. All available channels from the current transponder will be found and listed on the display.

TP Search does not function if the receiver is not locked to a transponder frequency. Please observe yellow (Lock) LED.

P	i	e	a	s	e		w	a	i	t	.	.	.	

*	E	u	r	o	n	e	w	s						
	S	A	T	i	A									

Select the required channel by using “▲”/“▼” buttons, confirm and store by pressing “**MENU**” button.

SEARCHING AUDIO TRACKS

➤ **Audio Tracks**

If the audio is multilingual, you can select the audio language. Select **Audio Tracks** menu, “**Please wait**” message will be displayed. After that, the existing audio languages are listed with leading numbers.

P	i	e	a	s	e		w	a	i	t	.	.	.	

BISS SETUP (OPTIONAL)

➤ **Mode**

This mode requires the direct entry of a session word (SW) at receiver side. To control access the scrambled transmission, you can choose one of the following modes in **BISS Setup** submenu.

- * **Mode 0:** No decoding.
- * **Mode 1:** Decoding by a fixed 12 character SW is inserted in the de-scrambler. Manual entry of the SW shall be in hexadecimal notation with the digits entered most-significant nibble first.
- * **Mode E:** (Optional) Inject ID and ESW inputs are made in this mode.

*	M	o	d	e			M	o	d	e	-	1	
	S	w	S	e	t	u	p						

➤ **SW Setup**

You can enter your defined 12 character SW with using “◀”/“▶” buttons to change hex character and “OK” button to move the cursor.

DVB Subtitle

➤ **Subtitle and Language**

If the channel has DVB subtitle service, the subtitle can be displayed on the picture by using this feature. If there is more than one subtitle language, the desired language is selected on **Language** line.

*	S	u	b	t	i	t	l	e							O	n
	L	a	n	g	u	a	g	e								

SETTING AUDIO

Select **Audio** submenu from the **Installation** menu. Select **Mode** by using “◀”/“▶” buttons. There are **Mono**, **Stereo**, **Left** and **Right** audio modes and you can control volume level. **Volume** can be changed from **0** to **31**.

*	M	o	d	e											M	o	n	o
	V	o	l	u	m	e										3	1	

SETTING VIDEO LEVEL

Select **Video** submenu from the **Installation** menu. Video output signal level can be increased or decreased. **Video Level** can be set from **95** to **105**. The default value is **100** and it corresponds to 1vpp.

*	L	e	v	e	l										1	0	0

BLANK OR FREEZE SCREEN ON BROADCASTING CEASE

Select **Video** submenu from the **Installation** menu. If **Blank** is made **Off**, the last picture remains on the screen while broadcasting is cutoff. If **Blank** is made **On**, the screen becomes blank.

*	B	l	a	n	k											O	n

VIDEO SYSTEM SETTINGS

Select **Video** submenu from the **Installation** menu. You can set video system as **PAL**, **NTSC** or **SECAM** on **System** line.

*	S	y	s	t	e	m									P	A	L

NO SIGNAL MESSAGE SETTING

Select **Video** submenu from the **Installation** menu. If you set **No Signal** to **On** “No Signal” message is displayed on the screen while broadcasting cutoffs.

*	N	o		S	i	g	.			M	s	g				O	n

LNB SETTINGS

Select **LNB** settings submenu from the **Installation** menu. Select LNB type as **Universal, Standard** or **C-Band, Low Band, High Band** local oscillator frequencies, **22KHz** and **DiSEqC** signals and **Power** setting can be made on the LNB settings menu.

*	L	o	w		B	a	n	d			9	.	7	5	
	H	i	g	h		B	a	n	d		1	0	.	6	0

*	H	i	g	h		B	a	n	d		1	0	.	6	0
	2	2	k	H	z						A	u	t	o	

Note: For Universal LNB, Low band is 9.75 GHz, High Band is 10.60 GHz. and 22 KHz is Auto. Standard LNB frequency is 10.00 GHz., C- Band LNB frequency is 5.15 GHz. They can be changed manually.

ALARM SETTINGS

Select **Alarm Settings** submenu from the **Installation** menu. If **V. Pattern** is set to **Yes**, video pattern is displayed during alarm. The alarm condition can depend on **Signal, Video** and **Audio** if any of them is selected as **Yes** and fails in the operation then the alarm is triggered. In the following example alarm is triggered only when the signal is gone video and audio do not trigger alarm. Alarm condition is marked with flashing red LED.

Note: If **V. Pattern** and **No Signal** is set to **On** at the same time, test pattern will be displayed, “No Signal” message will not be displayed while signal cutoffs.

*	V	.		P	a	t	t	e	r	n				Y	e	s
	S	i	g	n	a	i								Y	e	s

*	V	i	d	e	o									N	o
	A	u	d	i	o									N	o

LANGUAGE SETTINGS

Select **Language** submenu from the **Installation** menu, this menu displays available languages.

*	L	a	n	g	u	a	g	e	E	n	g	l	i	s	h

CONTROLLING SOFTWARE VERSION NUMBER

Select **Info** submenu from the **Installation** menu. Info menu displays information of the device software. E.g,

0	5	0	4	0	7		v	1	.	3	3				

RESETTING THE DEVICE SETTINGS

If you want to reset settings, you can use the **Reset Setting** submenu. Following screen will be displayed.

A	r	e		y	o	u		s	u	r	e	?			
O	K	-	Y	e	s		M	E	N	U	-	E	x	i	t

If you press “**OK**” button, all settings will be set to factory default values.

DYNAMIC PMT

Select **Dynamic PMT** submenu from the **Installation** menu. If Dynamic PMT is set to **On**, device will trace the PMT data continuously and if PID's are changed it will set new PID's automatically.

*	D	y	n	a	m	i	c	P	M	T			O	n

SETTING BAUD RATE

Select **Baudrate** submenu from the **Installation** menu. Set RS232 data transfer rate to a suitable value. (9600, 19200, 38400, 57600, 115200 bps)

*	B	a	u	d	R	a	t	e	1	1	5	2	0	0

SETTING FREQUENCY RANGE

Select **Frequency Range** submenu from the **Installation** menu. Set tuner lock frequency range to a suitable value. (1MHz, 2MHz, 3MHz, 4MHz, Auto)

*	R	a	n	g	e							A	u	t	o

DATA (DRX 3200 DS)

Select **Data** submenu from the **Installation** menu. There are some setting options. With **Status** adjustment Data feature can be enabled by switching to **On** position or disabled by **Off** position.

*	S	t	a	t	u	s								O	n
	P	I	D											3	8

*	F	o	r	m	a	t		S	t	r	e	a	m		

PID setting is used to enter the PID value of the packets that carry the data information.

Format setting is used to setup the data collection procedure from the packets whose PID is matched with the PID setting. The available options are **Transport**, **PES**, **Stream1** and **Stream2**. For these data collection setting, use the appropriate selection.

ASI SETTINGS (DRX 3200/3210 A, DRX 3200/3210 A CI)

In this mode data output format is burst of data packets (contiguous 188 bytes for each TS packet).

*	B	u	r	s	t									O	n

In this mode burst is off having stuffing between data bytes.

*	B	u	r	s	t									O	f	f

CI COMMON INTERFACE (DRX 3200/3210 CI, DRX 3200/3210 A CI)

In this menu setting, if there is not any CAM module inserted, you will see "Empty Slot" message. Depending on the used CAM module, the recognition time will be around 20s. After the recognition of CAM module you will see the module identification.

*	E	m	p	t	y		S	l	o	t					

*	V	i	a	c	c	e	s	s							

REMOTE ACCESS VIA RS232 (OPTIONAL)

Changing the settings, inquiry of the status, observing the alarm status, resetting the receiver, getting Eb/N0 and setting the BISS key is possible by the commands which sent via RS232. Sample HyperTerminal settings should be as follows;

- Baudrate: Should be set to the same value on the receiver.
- Data bits: 8
- Parity: No
- Stop bit: 1
- Flow control: No
- Emulation: TTY

After the settings and the connections are made correctly, enter **Help** command on the terminal, available commands and usage of them will be displayed on the screen.

REMOTE ACCESS VIA ETHERNET (OPTIONAL)

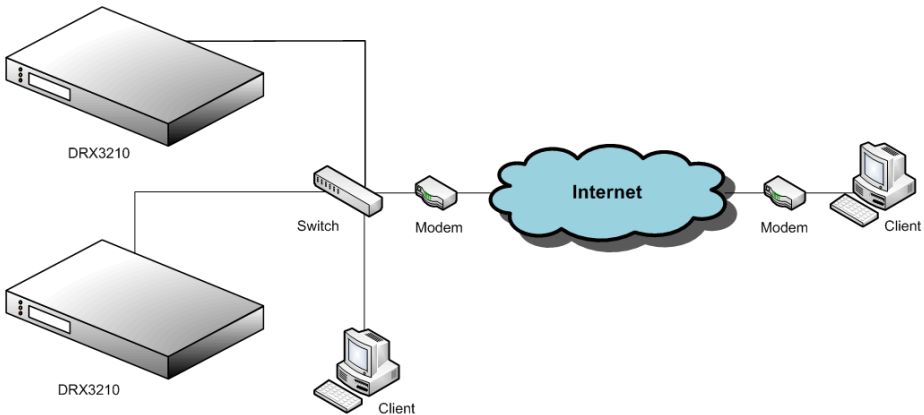
Changing the settings, inquiry of the status, observing the alarm status is possible by the ASCII commands which sent via Internet or local network.

Communication is made via a determined TCP port. IP Address, Subnet Mask and Gateway Address settings should be made suitable with the used network and determined automatically. For this DHCP setting should be made 'On'.

While DHCP is 'On', IP Address, Subnet Mask and Gateway Address settings can not be changed.

The receiver should be turned off and on again for the settings are being effective.

The receiver contains also a web server. Controlling the equipment and changing the settings is possible by using a web browser as Internet Explorer or similar one.



Setting IP Address:

*	I	P	A	d	d	r	e	s	s						
---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--

*	1	9	2	.	1	6	8	.	0	0	0	.	1	6	7
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Setting Subnet Mask:

*	S	u	b	n	e	t		M	a	s	k				
---	---	---	---	---	---	---	--	---	---	---	---	--	--	--	--

*	2	5	5	.	2	5	5	.	2	5	5	.	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Setting Gateway Address:

*	G	a	t	e	w	a	y		A	d	d	r	e	s	s
---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---

*	1	9	2	.	1	6	8	.	0	0	0	.	0	0	1
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Changing DHCP setting:

*	D	H	C	P										O	n
---	---	---	---	---	--	--	--	--	--	--	--	--	--	---	---

*	P	o	r	t		N	o				9	7	6	1
---	---	---	---	---	--	---	---	--	--	--	---	---	---	---

Accessing the receiver via Web:



DRX REMOTE ACCESS SYSTEM

System Status

Status	Channel:	TRT 1
Settings	Signal:	Running
Installation	Video:	Running
	Audio:	Running
	Quality:	82
	BER:	<10E-3

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EU DECLARATION OF CONFORMITY

Manufacturer: NETA Elektronik Cihazlar Sanayi ve Ticaret A.Ş.

Address: Yukarı Dudullu Organize Sanayi Bölgesi,
And Sitesi, No:18, 34775
Ümraniye - İSTANBUL / TÜRKİYE

Product description: Digital Satellite Receiver

Model: DRX 3200
DRX 3200 A
DRX 3300

Ratings: 230 V AC, 50 Hz

Applicable EU directives: 89/336/EEC EMC Directive
73/23/EEC Low Voltage Directive

Applicable standards: EN 55013
EN 55020
EN 61000-3-2
EN 61000-3-3
EN 60065

İstanbul, 07.03.2006

NETA Elektronik Cihazlar
Sanayi ve Ticaret A.Ş.

General Coordinator

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DRX 3200 / 3210

RACK TYPE SATELLITE RECEIVER

General Specifications:

LCD display (2x16 characters)
Front Panel Keypad / Keypad lock
Selectable BER value / signal strength display
Automatic FEC detection, carrier tracking, power-on reset
LED indicators (Power, Lock, Alarm)
Optional BISS decoding
C- / KU band reception
Dynamic PMT feature
Optional DVB Subtitle feature
Optional Remote Access via RS232
PAL, SECAM and NTSC systems

RF Characteristics:

Input Level : -25 dBm to -65 dBm
Input Frequency : 950-2150 MHz
Modulation : QPSK
Symbol Rate : 1-45 M symbols/sec (M bauds)
FEC Coding : 1/2, 2/3, 3/4, 5/6, 7/ automatic selection
Input Impedance : 75 Ω
LNB Power Supply : 13/18 V polarity switching, plus 22kHz
LNB Current : 400 mA, short circuit protected
Input Connector : F- type, female
Loop Out Connector : F- type, female

Video Compression:

Data Rate : 1.5 – 15 Mbps
Compression Type : MPEG-2, 4:2:0
Video Format : 4:3

Video Output:

Video Format : Composite PAL/NTSC/SECAM
Output Level : 1 Vpp menu adjustable
Output Impedance : 75 Ω
Chroma- Luma Gain : < 5 %
Chroma- Luma Delay : < 25 ns
Luminance non-linearity : < 4 %
Connector type : BNC, female
Monitor output : BNC, female

Audio Compression:

Compression Type : MPEG-1 Layer-I, II
Output Modes : Stereo, Dual Mono, Mono
Sampling Rate : 32, 44.1 and 48 kHz

Audio Outputs:

Frequency range : 16Hz-22kHz
Flatness : < 1 dB
Output level : Menu adjustable
Impedance : 600 ohm
Balancing : Transformer balanced
Harmonic distortion : < 0.5%
S/N Ratio : > 60 dB
Connector type : Dual XLR type, male
Monitor Output (optional) : Double RCA (optional)

Common Interface (DRX 3200/3210 CI, DRX 3200/3210 A CI):

All traditional CAM modules are supported.

DATA Output (DRX 3200 DS):

RS232 : DB-9 connector
Baud Rate : 9600, 19200, 38400, 57600, 115200

ASI Output (DRX 3200/3210 A, DRX 3200/3210 A CI):

Transmission rate : 270 Mbit/s
Connector : Copper, BNC
Data packet format : 188 bytes (adjustable format)

Ethernet Connection:

Protocol : TCP, Web Server
Connector : RJ 45
Data speed : 10 Mbps

Power Supply:

Power Supply : SMPS, 220 VAC +10%, -20%, 50/60Hz
Power Consumption : 30W max.

Mechanical Specifications:

Size (HeightxWidthxDepth) : 1.75" H x 19" W x 9.4" D
: 44.5mm (1 RU) H x 480mm W x 240mm D
Operating Temperature : 0 - 45°C

NETA®

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