

user manual **ProStreamer**

5202 / 5203 5210 / 5211 5230



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1 INTRODUCTION

THE PROSTREAMER RANGE



DVB-S(2) » REF. 5202, 5203

4 SAT inputs with 4 active loop-through outputs

4 transponders over 4 tuner matrix

up to 16 FTA programs

up to 12 encoded programs: ref. 5203 (with associated multiservice CAM)



DVB-T » REF. 5210, 5211

1 RF input with active loop-through output

4 multiplexes over 4 tuner matrix

up to 16 FTA programs

up to 12 encoded programs: ref. 5211 (with associated multiservice CAM)



A/V encoder » REF. 5230

4 A/V stereo inputs

4 programs

PACKAGE CONTENTS

Be sure all items listed below are included:



SAFETY INSTRUCTIONS



Read these instructions carefully before connecting the unit



To prevent fire, short circuit or shock hazard:

- Do not expose the unit to rain or moisture.
- Install the unit in a dry location without infiltration or condensation of water.
- Do not expose it to dripping or splashing.
- Do not place objects filled with liquids, such as vases, on the apparatus.
- If any liquid should accidentally fall into the cabinet, disconnect the power plug.



- Install the unit in a well aery location and keep a minimum distance of 15 cm around the apparatus for sufficient ventilation.
- Do not place any items such as newspapers, table-cloths, curtains,... on the unit that might cover the ventilation holes.
- The unit must not be exposed to any source of heat (sun, heater,...).
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- Do not install the product in a dusty place.
- Use the apparatus only in moderate climats (not in tropical climates).
- Respect the minimum and maximum temperature specifications.



To avoid any risk of electrical shocks:

- Connect apparatus only to socket with protective earth connection.
- The mains plug shall remain readily operable.
- Pull out power plug to make the different connections of cables.
- To avoid electrical shock, do not open the housing of adapter.



Only use a dry soft cloth to clean the cabinet.



Do not use solvent.

For repairing and servicing refer to qualified personnel.



Dispose according your local authority's recycling processes

ACCESSORIES



Power Supply » REF. 5050

operating voltage: 15 V

max. output current: 10 A

can power up to 9 modules



19" sub-rack » REF. 5060

can contain up to 9 modules* + power supply

mounting in 19" rack or wall-mountable (bindings delivered)

delivered with 8 blank plates mounted

* depending on the configuration



Fan Unit » REF. 5062

voltage: 230 VAC

essential for proper functioning of the system

2 INSTALLATION OF THE HARDWARE

Before mounting, install all modules in the sub-rack. Place the power supply (ref. 5050) in the uppermost left slot of the rack (ref.5060).

19" RACK MOUNTING

For rack mounting, attach the 19" sub-rack and the optional fan-unit in the rack as indicated by the picture.



WALL MOUNTING

When mounting the headend to a wall, attach the fan-unit to the sub-rack with the delivered bindings. Attach the mounting brackets on the back of the sub-rack for the mural mounting.



- 19" sub-rack (ref. 5060)
- 2 power supply (ref. 5050)
- 3 RF bridge for signal loop-through
- 4 power bridge for DC power loop-through
- **5** wall mounting holes
- 6 mounting brackets
- *i* bindings for attaching fan unit to the sub-rack
- 8 fan unit (ref. 5062)
- 9 mounting screws

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INSERTING CAM SLOT

Connect the RF and power bridges on consecutive modules to bridge the signal and power to the following modules. The CAM slot is inserted with the pit on the top as is indicated below. Insert the CAM card with the **chip pointing to the left side of the CAM module**.



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MODULE OVERVIEW



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5210/5211



- 1 Terrestrial input
- 2 +15 VDC input
- 3 GND input
- 4 RJ-45 control port
- **5** RJ-45 streaming port**6** mounting screws
- thounding screws
 terrestrial output for loop-through to next module
- +15 VDC output for loop-through
- GND output for loop-through
- O Cl slot (5211 only)

- a tuner 1 lock LED
- b tuner 2 lock LED
- c tuner 3 lock LED
- d tuner 4 lock LED
- power indication LED
- alarm indication LED

3 WEBGUI

SETTING THE NAME OF THE DEVICE

When first connecting the modules, be sure to follow this exact procedure!

• Connect the first module in the rack with your PC, using an RJ-45 Ethernet cable (without using a switch!).



• Open a browser and surf to START



• You will now enter the webGui. Go to the Configuration → Global menu:

| 0 johansson | | Language: en 🗸 Alarm: 🗣 |
|--|--|-----------------------------------|
| DMH web interface 1.2.4.Re | lease | 5203 - ProStreamer IP DVB-S2 (CI) |
| Summary Configuration Global Export configuration Factory reset Firmware upgrade | Host name: DMH IP address: 169 254 221 78 | |
| DVB-S2 inputs IP output MPEG settings | | |
| | Copyright © 2011 UNITRON n.v. | |

- Change the name START to another name. Be sure to choose a logical name and **don't forget this name!** This name is the only way to connect to the module later on! It's advisable to print this name, and label the devices.
- After you press *APPLY*, the module will restart. This will take about 25 seconds. Afterwards, you can surf to the new name you just entered, to connect to the module.
- Repeat this procedure with the next modules (1 at a time).
- When all modules have a new name, you can connect all modules to the same network. The modules will now get a new IP address, but you can connect by surfing to the right name (the unique name you gave the module in the previous steps).

LOGGING IN TO THE DEVICE

Open your network browser, and surf to the name of the module. You will now log in to the module. After logging in, the Summary window appears.

| J johansson DMH web interface 1.2.4. | Release | ices | Language: en - Alarm: • 5203 - Prostreamer IP DVB-52 (Cl) | - | status 'LED' |
|--|---|------|--|---|-----------------|
| Configuration DVB-52 inputs IP output MPEG settings | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 6 FI | ame LMBOX HD ISTORY HD OVY HD B0 HD Pedtum HD Zavel Channel HD VE Zavel Channel HD CE ISTORY HD BG | | |
| | | | Copyright © 2011 UNITRON n.v. | | |

On this screen, you see all the services, streamed by this module. The type of module, the status and the language are visible on every screen. In the picture above, the status 'LED' is green, indicating that there are no alarms. The alarm status is shown when you move over the status 'LED' with your mouse.

| 0 johansson | | | | Language: | en 👻 | Alarm: 🔵 | | |
|--------------------------|-------------------------------|-------|----------------------|---------------|------|-----------|---|--|
| DMH web interface 1.2.4. | Release | | | 203 - ProStre | | No alarms | a | |
| Summary | Active set | vices | | | | | | |
| Configuration | Туре | | Name | | | | | |
| DVB-S2 inputs | TV. | â | FILMBOX HD | | | | | |
| IP output | tv) | | HISTORY HD | | | | | |
| MPEG settings | EV. | | NOVY HD | | | | | |
| | | Ê | HBO HD | | | | | |
| | EV. | Ê | Spektrum HD | | | | | |
| | tv) | 1 | Travel Channel HD WE | | | | | |
| | tv | Ê | Travel Channel HD CE | | | | | |
| | | û | HISTORY HD BG | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Copyright © 2011 UNITRON n.v. | | | | | | | |

GENERAL CONFIGURATION

GLOBAL

Here you can configure the hostname of the module. This name can be used to access the module by simply typing it into your browser as the address and surf to it. This is more convenient than using the IP address.

| Openansson Language: en Alarm DMH web interface 1.2.4.Release 5203 - ProStreamer IP DVB-S 5203 - ProStreamer IP DVB-S | | | | | |
|---|----------------------|-----------------------|--|--|--|
| Summary Configuration Global Export configuration Factory reset Firmware upgrade DVB-S2 inputs IP output MPEG settings | Global Host name: | DMH 189 254 221 78 | | | |
| Copyright © 2011 UNITRON n.x. | | | | | |

Just enter 'http://hostname' into your favorite browser (not case sensitive) and press enter:



EXPORT CONFIGURATION

The configuration can be exported as an .xml-file.

| 0 johansson | | Language: en 👻 Alarm; 🔍 | | |
|---|---|-----------------------------------|--|--|
| DMH web interface 1.2.4 | 1.Release | 5203 - ProStreamer IP DVB-S2 (CI) | | |
| Summary Configuration Global Export configuration Factory reset Firmware upgrade DVB-S2 inputs IP output IP output MPEG settings | The export file is ready and svallable: <u>Cowhioad</u> | | | |
| Copyright © 2011 UNITRON n.v. | | | | |



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FACTORY RESET

All settings can be reset to default by means of a factory reset.



FIRMWARE UPGRADE

To upgrade the firmware of the device, click the Firmware upgrade menu item.

| 0 johansson | | Language: en 👻 Alarm: 🔍 | |
|--|---|-----------------------------------|--|
| DMH web interface 1.2. | Release | 5203 - ProStreamer IP DVB-S2 (CI) | |
| Summary Configuration Global Export configuration Factory reset Firmware upgrade DVR-52 inputs IP output MPEG settings | Firmware upprade File: Bladeren. Upload, Start firmware | | |
| Copyright © 2011 UNITRON n.x | | | |

Click on the *BROWSE* button, and open the upgrade file. Click *UPLOAD* to send the file to the device, and click *START FIRMWARE* to install the new firmware on the device.

CONFIGURATION OF THE INPUT

DVB-S2 INPUT: 5202/5203

Go to the LNB Settings menu to configure the 4 LNB inputs.

| ummary | LNB settings | | | | | | |
|------------------------------|--------------|--------|---------|-------|--------|------|--------------|
| onfiguration VB-S2 inputs | Input | Label | Voltage | Tone | DISEqC | Band | Ext. voltage |
| VB settings | 1 | Vlow | 13V 💌 | OFF - | Α 🕶 | Ku 👻 | V |
| iner 1 | 2 | H low | 18V - | OFF - | Α 👻 | Ku 👻 | V |
| | 3 | V high | 13V 👻 | ON 👻 | Α 👻 | Ku 👻 | V |
| iner 2 | 4 | H high | 18V 👻 | ON 👻 | Α - | Ku 👻 | V |
| iner 3 | | | | | | | |
| uner 4 | Apply | | | | | | |

- Input: Sequence number of the input (also indicated on the front of the actual module)
- Label: custom label for each input (e.g. V low, or ASTRA 19.2 V Low,...)
- Voltage: The LNB voltage to select the polarization

 13V: Vertical polarization
 18V: Horizontal polarization
- Tone: LNB tone to select low/high band
 ON: high band
 OFF: low band
- DiSEqC[®]: control of a DiSEqC[®] switch (A/B/C/D)
- Band: Satellite band
 - Ku-band: common in Europe
 - $\circ\,\mbox{C-band}$: mostly used in the USA
- Ext. Voltage: Add 1V to the LNB voltage to compensate the cable losses for long coaxial cables.

Press APPLY to confirm the parameters.

Go to the *TUNER* menu to configure the tuner frequency. The modules have 4 independent tuners, which can be assigned to every input, thanks to a built-in multiswitch.

| 0 johansson | | Language: en 🗸 Alarm; 🔎 | | | |
|---|--|-----------------------------------|--|--|--|
| DMH web interface 1.2.4.F | elease | 5203 - ProStreamer IP DVB-S2 (CI) | | | |
| Summary Configuration DVB-S2 inputs LNB settings | Tuner 1 - Settings Input: V Iow • Frequency (MHz): 10847 Baud Rate (KBaud): 23000 | | | | |
| Tuner 1 Tuner 2 Tuner 3 Tuner 4 | Apply | | | | |
| IP output MPEG settings | Tuner 1 - Status | | | | |
| | BER: 10 ⁻¹ SNR: 0 dB | | | | |
| | Available services Type Name | SID | | | |
| Copyright @ 2011 UNITRON n.v. | | | | | |

- Input: One of the 4 labels configured in the previous step. This selects the satellite input.
- Frequency: Transponder frequency
- Baud rate [kBaud]

Press *APPLY* to confirm the parameters. The module will now set the tuner to this frequency. Wait until the correct parameters are loaded.

| ohanssor | | Language: en 🛩 Alarm: 🧶 |
|---------------------|--|----------------------------------|
| MH web interface 1. | 2.4.Release | 5203 - ProStreamer IP DVB-S2 (CI |
| Summary | Tuner 1 - Settings | |
| Configuration | | |
| | Input H high 👻 | |
| NB settings | Frequency (MHz): 12109 Baud Rate (kBaud): 27500 | |
| | | |
| uner 2 | Apply | |
| uner 3 | | |
| uner 4 | | |
| | Tuner 1 - Status | |
| | Lock: | |
| | Level: Loading | |
| | BER: 10-1 | |
| | SNR: 0 dB | |
| | | |
| | Available services | |
| | | SID |
| | Type Name | SID |
| | | |
| | | |
| | | |

When the tuner is able to lock on the frequency, the list of services from this transponder will be shown.

| johansson | | | | Language: en 👻 Alarm: (|
|------------------------|----------------|--------------|---------------|------------------------------|
| IH web interface 1.2.4 | 4.Release | | | 5203 - ProStreamer IP DVB-S2 |
| immary | Tuner 1 - Sett | ngs | | |
| Infiguration | 1 | | | |
| B-S2 inputs | Input | | H high 👻 | |
| 3 settings | | ncy (MHz): | 12109 | |
| her 1 | Baud R | ate (kBaud): | 27500 | |
| ier 2 | | | | |
| ner 3 | Apply | | | |
| ner 4 | | | | |
| | Tuner 1 - Stat | 15 | | |
| output | | | | |
| EG settings | Lock: | • | | |
| | Level: | | -39 dBm | |
| | BER: | | 10-8 | |
| | SNR: | _ | 14 dB | |
| | Available serv | | | |
| | Available serv | ices | | |
| | Туре | Name | | SID |
| | 🛛 🖸 🕯 | EUROS | PORT HD | 5041 |
| | | HISTOR | RY HD | 5042 |
| | N | FILMBO | IX HD | 5043 |
| | | NOVY H | ID | 5044 |
| | N | Spektru | im HD | 5045 |
| | | HBO HI | 0 | 5047 |
| | | Travel C | Channel HD CE | 5048 |
| | | Eurosp | ort HD DUT | 5049 |
| | | | | |

The status of the tuner is shown.

- Status:
 - Green: tuner locked
 - Red: tuner unlocked
- Level: input signal level [dBm]
- BER: Bit Error Rate
- SNR: Signal to Noise Ratio [dB]

The table 'Available services' shows all the services found in the transponder.

- Type: Type of data
 - TV service
 - 🌶 radio service
 - locked service (encoded)
 - dunlocked service (decoded)
- Name: Service name
- SID: Service Identifier (unique ID for a service)

CONFIGURATION OF THE OUTPUT

| Null PCP VLN PCP V 1 229.0.1.1 4552 OFF • 4 • 2 229.0.1.2 4552 OFF • 4 • 3 229.0.1.3 45152 OFF • 4 • 4 229.0.1.3 45152 OFF • 4 • 5 229.0.1.3 45152 OFF • 4 • | Channel Multicast address UDP port VLAN PCP VUC 1 229.0.1.1 4512 OFF 4 1 2 229.0.1.2 4512 OFF 4 1 3 229.0.1.3 4512 OFF 4 1 4 229.0.1.4 4512 OFF 4 1 5 229.0.1.5 4512 OFF 4 1 | TE2. 165.10.100 T TE2. 165.10.100 T Apply Channel Multicast address UDP port VLN PCP VID 1 2280.1.1 49152 OFF • 4 • 1 2 2280.1.2 49152 OFF • 4 • 1 3 2280.1.3 49152 OFF • 4 • 1 6 2280.1.6 49152 OFF • 4 • 1 6 2280.1.6 49152 OFF • 4 • 1 7 2280.1.8 49152 OFF • 4 • 1 8 2280.1.8 49152 OFF • 4 • 1 7 2280.1.8 49152 OFF • 4 • 1 9 2280.1.8 49152 OFF • 4 • 1 11 2280.1.1 49152 OFF • 4 • 1 | | | | | | |
|--|--|--|---------------------------------|---|---|---|--|-----|
| 192.168.10.100 1 1 290 / 1 49152 OFF - 4 1 230.1.1 49152 OFF - 4 - 2 230.1.2 49152 OFF - 4 - - 3 230.1.3 49152 OFF - 4 - < | Is: Is: Is: Is: Is: Is: Is: Channel Multicast address UDP port VLN PCP VIC 1 228 0.1.2 49152 OFF • 4 • I 3 228 0.1.3 49152 OFF • 4 • I 4 228 0.1.4 49152 OFF • 4 • I 5 228 0.1.6 49152 OFF • 4 • I 6 228 0.1.8 49152 OFF • 4 • I 7 228 0.1.8 49152 OFF • 4 • I 7 228 0.1.8 49152 OFF • 4 • I 9 228 0.1.8 49152 OFF • 4 • I | TE2. 165.10.100 T TE2. 165.10.100 T Apply Channel Multicast address UDP port VLN PCP VID 1 2280.1.1 49152 OFF • 4 • 1 2 2280.1.2 49152 OFF • 4 • 1 3 2280.1.3 49152 OFF • 4 • 1 6 2280.1.6 49152 OFF • 4 • 1 6 2280.1.6 49152 OFF • 4 • 1 7 2280.1.8 49152 OFF • 4 • 1 8 2280.1.8 49152 OFF • 4 • 1 7 2280.1.8 49152 OFF • 4 • 1 9 2280.1.8 49152 OFF • 4 • 1 11 2280.1.1 49152 OFF • 4 • 1 | | | | | | |
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| Null PCP VLN PCP V 1 229.0.1.1 4552 OFF • 4 • 2 229.0.1.2 4552 OFF • 4 • 3 229.0.1.3 45152 OFF • 4 • 4 229.0.1.3 45152 OFF • 4 • 5 229.0.1.3 45152 OFF • 4 • | Channel Multicast address UDP port VLAN PCP VIC 1 2280.0.1 49152 OFF 4 1 2 2290.0.1 49152 OFF 4 1 3 2290.0.1.3 49152 OFF 4 1 4 2380.0.1.6 49152 OFF 4 1 5 2280.0.1.6 49152 OFF 4 1 7 2290.0.1.8 49152 OFF 4 1 7 2290.1.8 49152 OFF 4 1 8 2290.1.8 49152 OFF 4 1 9 2280.1.5 49152 OFF 4 1 | Channel Multicast address UDP port VLAN PCP VIC 1 2250.1.1 49152 OFF 4 1 2 2250.1.2 49152 OFF 4 1 3 2250.1.3 49152 OFF 4 1 4 2250.1.4 49152 OFF 4 1 5 2250.1.5 49152 OFF 4 1 7 2250.1.6 49152 OFF 4 1 8 2260.1.8 49152 OFF 4 1 9 2250.1.8 49152 OFF 4 1 9 2260.1.8 49152 OFF 4 1 10 2250.1.8 49152 OFF 4 1 11 2260.1.9 49152 OFF 4 1 | | | | | | |
| Null PCP VLN PCP V 1 229.0.1.1 4552 OFF • 4 • 2 229.0.1.2 4552 OFF • 4 • 3 229.0.1.3 45152 OFF • 4 • 4 229.0.1.3 45152 OFF • 4 • 5 229.0.1.3 45152 OFF • 4 • | Channel Multicast address UDP port VLAN PCP VIC 1 2280.0.1 49152 OFF 4 1 2 2290.0.1 49152 OFF 4 1 3 2290.0.1.3 49152 OFF 4 1 4 2380.0.1.6 49152 OFF 4 1 5 2280.0.1.6 49152 OFF 4 1 7 2290.0.1.8 49152 OFF 4 1 7 2290.1.8 49152 OFF 4 1 8 2290.1.8 49152 OFF 4 1 9 2280.1.5 49152 OFF 4 1 | Channel Multicast address UDP port VLAN PCP VIC 1 2250.1.1 49152 OFF 4 1 2 2250.1.2 49152 OFF 4 1 3 2250.1.3 49152 OFF 4 1 4 2250.1.4 49152 OFF 4 1 5 2250.1.5 49152 OFF 4 1 7 2250.1.6 49152 OFF 4 1 8 2260.1.8 49152 OFF 4 1 9 2250.1.8 49152 OFF 4 1 9 2260.1.8 49152 OFF 4 1 10 2250.1.8 49152 OFF 4 1 11 2260.1.9 49152 OFF 4 1 | ent Apply | | | | | |
| Channel Multicast address UDP port VLN PCP V 1 239.0.1.1 45152 OFF • 4 • 4 • | Channel Multicast address UDP port VLN PCP VIC 1 2380.1.1 49152 OFF 4 1 2 2380.1.2 49152 OFF 4 1 3 2280.1.3 49152 OFF 4 1 4 2280.1.4 49152 OFF 4 1 5 2280.1.5 49152 OFF 4 1 6 2280.1.6 49152 OFF 4 1 7 2280.1.7 49152 OFF 4 1 7 2280.1.8 49152 OFF 4 1 8 2280.1.8 49152 OFF 4 1 9 2280.1.8 49152 OFF 4 1 | Channel Multicast address UDP port VLN PCP VIII 1 2280.11 49152 OFF • 4 • 1 2 280.12 49152 OFF • 4 • 1 3 289.0.1.3 49152 OFF • 4 • 1 4 289.0.1.4 49152 OFF • 4 • 1 6 289.0.1.6 49152 OFF • 4 • 1 7 289.0.1.8 49152 OFF • 4 • 1 8 289.0.1.8 49152 OFF • 4 • 1 8 289.0.1.8 49152 OFF • 4 • 1 9 289.0.1.8 49152 OFF • 4 • 1 10 228.0.1.9 49152 OFF • 4 • 1 10 228.0.1.11 49152 OFF • 4 • 1 | | | | | | |
| Channel Multicast address UDP port VLN PCP V 1 239.0.1.1 45152 OFF • 4 • 4 • | Channel Multicast address UDP port VLN PCP VIC 1 2380.1.1 49152 OFF 4 1 2 2380.1.2 49152 OFF 4 1 3 2280.1.3 49152 OFF 4 1 4 2280.1.4 49152 OFF 4 1 5 2280.1.5 49152 OFF 4 1 6 2280.1.6 49152 OFF 4 1 7 2280.1.7 49152 OFF 4 1 7 2280.1.8 49152 OFF 4 1 8 2280.1.8 49152 OFF 4 1 9 2280.1.8 49152 OFF 4 1 | Channel Multicast address UDP port VLN PCP VIII 1 2280.11 49152 OFF • 4 • 1 2 280.12 49152 OFF • 4 • 1 3 289.0.1.3 49152 OFF • 4 • 1 4 289.0.1.4 49152 OFF • 4 • 1 6 289.0.1.6 49152 OFF • 4 • 1 7 289.0.1.8 49152 OFF • 4 • 1 8 289.0.1.8 49152 OFF • 4 • 1 8 289.0.1.8 49152 OFF • 4 • 1 9 289.0.1.8 49152 OFF • 4 • 1 10 228.0.1.9 49152 OFF • 4 • 1 10 228.0.1.11 49152 OFF • 4 • 1 | | | | | | |
| 1 239.0.1.1 49152 OFF • 4 • 2 239.0.1.2 49152 OFF • 4 • 3 239.0.1.3 49152 OFF • 4 • 4 239.0.1.4 49152 OFF • 4 • 5 239.0.1.5 49152 OFF • 4 • | 1 239.0.1.1 49102 OFF 4 1 2 228.0.1.2 49102 OFF 4 1 3 329.0.1.3 49152 OFF 4 1 4 228.0.1.4 49152 OFF 4 1 5 239.0.1.5 49152 OFF 4 1 6 2290.0.1.6 49152 OFF 4 1 7 229.0.1.6 49152 OFF 4 1 8 229.0.1.8 49152 OFF 4 1 9 229.0.1.9 49152 OFF 4 1 | 1 289.0.1.1 49152 OFF • 4 • 1 2 289.0.1.2 49152 OFF • 4 • 1 3 289.0.1.3 49152 OFF • 4 • 1 4 289.0.1.3 49152 OFF • 4 • 1 5 289.0.1.5 49152 OFF • 4 • 1 6 289.0.1.6 49152 OFF • 4 • 1 7 289.0.1.7 49152 OFF • 4 • 1 8 289.0.1.8 49152 OFF • 4 • 1 9 289.0.1.8 49152 OFF • 4 • 1 10 289.0.1.0 49152 OFF • 4 • 1 11 289.0.1.10 49152 OFF • 4 • 1 | Channel IP settings | | | | | |
| 1 239.0.1.1 49152 OFF • 4 • 2 239.0.1.2 49152 OFF • 4 • 3 239.0.1.3 49152 OFF • 4 • 4 239.0.1.4 49152 OFF • 4 • 5 239.0.1.5 49152 OFF • 4 • | 1 239.0.1.1 49102 OFF 4 1 2 228.0.1.2 49102 OFF 4 1 3 329.0.1.3 49152 OFF 4 1 4 228.0.1.4 49152 OFF 4 1 5 239.0.1.5 49152 OFF 4 1 6 2290.0.1.6 49152 OFF 4 1 7 229.0.1.6 49152 OFF 4 1 8 229.0.1.8 49152 OFF 4 1 9 229.0.1.9 49152 OFF 4 1 | 1 289.0.1.1 49152 OFF • 4 • 1 2 289.0.1.2 49152 OFF • 4 • 1 3 289.0.1.3 49152 OFF • 4 • 1 4 289.0.1.3 49152 OFF • 4 • 1 5 289.0.1.5 49152 OFF • 4 • 1 6 289.0.1.6 49152 OFF • 4 • 1 7 289.0.1.7 49152 OFF • 4 • 1 8 289.0.1.8 49152 OFF • 4 • 1 9 289.0.1.8 49152 OFF • 4 • 1 10 289.0.1.0 49152 OFF • 4 • 1 11 289.0.1.10 49152 OFF • 4 • 1 | Channel | | 100 | 10.41 | 000 | 105 |
| 2 239.0.12 49152 OFF 4 4 3 239.0.13 49152 OFF 4 4 4 239.0.14 49152 OFF 4 4 5 239.0.15 49152 OFF 4 4 5 239.0.15 49152 OFF 4 4 | 2 299.0.1.2 49152 OFF 4 1 3 239.0.1.3 49152 OFF 4 1 4 239.0.1.4 49152 OFF 4 1 5 229.0.1.6 49152 OFF 4 1 6 229.0.1.6 49152 OFF 4 1 7 239.0.1.6 49152 OFF 4 1 8 239.0.1.6 49152 OFF 4 1 9 239.0.1.6 49152 OFF 4 1 | 2 299.0.1.2 44152 OFF 4 1 3 293.0.3.3 44152 OFF 4 1 4 293.0.1.4 4152 OFF 4 1 5 293.0.1.6 4152 OFF 4 1 6 293.0.1.6 4152 OFF 4 1 7 293.0.1.6 4152 OFF 4 1 8 290.1.8 4152 OFF 4 1 9 290.1.8 4152 OFF 4 1 9 290.1.8 4152 OFF 4 1 10 229.0.1.8 4152 OFF 4 1 11 290.1.11 4152 OFF 4 1 | | | | | | |
| 3 239.0.1.3 49152 OFF • 4 • 4 239.0.1.4 49152 OFF • 4 • 5 239.0.1.5 49152 OFF • 4 • | 3 239.0.1.3 49152 OFF 4 1 4 239.0.1.4 49152 OFF 4 1 5 239.0.1.5 49152 OFF 4 1 6 239.0.1.5 49152 OFF 4 1 7 239.0.1.5 49152 OFF 4 1 8 239.0.1.8 49152 OFF 4 1 9 239.0.1.8 49152 OFF 4 1 9 239.0.1.9 49152 OFF 4 1 | 3 228.0.1.3 49152 OFF • 4 • 1 4 228.0.1.4 49152 OFF • 4 • 1 5 228.0.1.5 49152 OFF • 4 • 1 6 228.0.1.6 49152 OFF • 4 • 1 6 228.0.1.6 49152 OFF • 4 • 1 7 228.0.1.8 49152 OFF • 4 • 1 9 228.0.1.8 49152 OFF • 4 • 1 10 228.0.1.0 49152 OFF • 4 • 1 11 228.0.1.10 49152 OFF • 4 • 1 | | | | | | |
| 4 239.0.1.4 49152 OFF 4 4 5 239.0.1.5 49152 OFF 4 4 | 4 239.0.1.4 49152 OFF 4 1 5 239.0.1.5 49152 OFF 4 1 6 239.0.1.6 4952 OFF 4 1 7 239.0.1.6 4952 OFF 4 1 8 229.0.1.6 4952 OFF 4 1 9 229.0.1.8 4952 OFF 4 1 | 4 299.0.1.4 49152 OFF 4 1 5 299.0.1.5 49152 OFF 4 1 6 299.0.1.6 49152 OFF 4 1 7 299.0.1.7 49152 OFF 4 1 8 299.0.1.8 49152 OFF 4 1 9 299.0.1.8 49152 OFF 4 1 9 299.0.1.8 49152 OFF 4 1 10 299.0.1.9 49152 OFF 4 1 11 298.0.1.10 49152 OFF 4 1 | - | | | | | |
| 5 239.0.1.5 49152 OFF 4 | 5 239.0.1.5 49152 OFF 4 1 6 239.0.1.6 49152 OFF 4 1 7 2359.0.1.7 49152 OFF 4 1 8 2390.1.8 49152 OFF 4 1 9 2390.1.5 4952 OFF 4 1 | 8 289.0.1.5 49162 OFF 4 1 6 229.0.1.8 49162 OFF 4 1 7 259.0.1.7 49162 OFF 4 1 8 229.0.1.8 49162 OFF 4 1 9 229.0.1.8 49162 OFF 4 1 10 228.0.1.0 49162 OFF 4 1 11 228.0.1.10 49162 OFF 4 1 | | | | | | |
| | 6 239.0.1.6 49152 OFF 4 1 7 239.0.1.7 49152 OFF 4 1 8 230.0.1.8 49152 OFF 4 1 9 239.0.1.9 49152 OFF 4 1 | 6 228.0.1.8 49152 OFF 4 1 7 239.0.1.7 49152 OFF 4 1 8 239.0.1.8 49152 OFF 4 1 9 239.0.1.8 49152 OFF 4 1 10 238.0.1.0 49152 OFF 4 1 11 238.0.1.10 49152 OFF 4 1 | | | | | | |
| | 7 239.0.1.7 49152 OFF 4 1 8 239.0.1.8 49152 OFF 4 1 9 239.0.1.9 49152 OFF 4 1 | 7 289.0.1.7 49152 OFF 4 1 8 229.0.1.8 49152 OFF 4 1 9 28.0.1.9 49152 OFF 4 1 10 239.0.1.0 49152 OFF 4 1 11 239.0.1.1 49152 OFF 4 1 | - | | | | | |
| | 8 239.0.1.8 49152 OFF 4 1 9 239.0.1.9 49152 OFF 4 1 | 8 298.0.1.8 49152 OFF 4 1 9 228.0.1.8 48152 OFF 4 1 10 228.0.1.0 48152 OFF 4 1 11 228.0.1.10 49152 OFF 4 1 | | | | | | |
| | 9 239.0.1.9 49152 OFF 🗸 4 🗸 1 | 9 239 0.1.9 49152 OFF ↓ 4 ↓ 1 10 239.0.1.10 49152 OFF ↓ 4 ↓ 1 11 239.0.1.11 49152 OFF ↓ 4 ↓ 1 | | | | | | |
| | | 10 239.0.1.10 49152 OFF ↓ 4 ↓ 1 11 239.0.1.11 49152 OFF ↓ 4 ↓ 1 | | | 40102 | | | |
| | | 11 239.0.1.11 49152 OFF + 4 + 1 | | | 49152 | | | |
| | 11 239.0.1.11 49152 OFF _ 4 _ 1 | | 9 | 239.0.1.9 | | | | 1 |
| 11 239.0.1.11 49152 OFF 4 - | | 12 239.0.1.12 49152 OFF _ 4 _ 1 | 9 | 239.0.1.9 239.0.1.10 | 49152 | OFF 🚽 | 4 🗸 | |
| | | | 9 10 11 | 239.0.1.9 239.0.1.10 239.0.1.11 | 49152 49152 | OFF - | 4 🖵 4 🖵 | 1 |
| 12 239.0.1.12 49152 OFF 4 | 12 239.0.1.12 49152 OFF 🗸 4 🗸 1 | 13 239.0.1.13 49152 OFF 4 1 | 9 10 11 12 | 239.0.1.9 239.0.1.10 239.0.1.11 239.0.1.12 | 49152 49152 49152 | OFF - OFF - | 4 🕌 4 🛶 4 🛶 | 1 |
| 12 239.0.1.12 49152 OFF + 4 + 13 239.0.1.13 49152 OFF + 4 + | 12 239.0.1.12 49152 OFF ↓ 4 ↓ 1 13 239.0.1.13 49152 OFF ↓ 4 ↓ 1 | | 9 10 11 12 13 | 239.0.1.9 239.0.1.10 239.0.1.11 239.0.1.12 239.0.1.13 | 49152 49152 49152 49152 | OFF • OFF • OFF • | 4 v 4 v 4 v 4 v | 1 |
| 12 239.0.1.12 49152 OFF 4 - 13 239.0.1.13 49152 OFF 4 - 14 239.0.1.14 49152 OFF 4 - | 12 238.0.1.12 49152 OFF ↓ 4 ↓ 1 13 238.0.1.13 49152 OFF ↓ 4 ↓ 1 14 238.0.1.14 49152 OFF ↓ 4 ↓ 1 | 14 239.0.1.14 49152 OFF 🖕 4 🦊 1 | 9 10 11 12 13 14 | 239.0.1.9 239.0.1.10 239.0.1.11 239.0.1.12 239.0.1.13 239.0.1.14 | 49152 49152 49152 49152 49152 | OFF • OFF • OFF • OFF • | 4 y 4 y 4 y 4 y 4 y | 1 |
| 7 239.0.1.7 49152 OFF ↓ 4 ↓ 8 239.0.1.8 4952 OFF ↓ 4 ↓ 9 239.0.1.9 49152 OFF ↓ 4 ↓ 10 239.0.1.0 49152 OFF ↓ 4 ↓ | 11 239.0.1.11 49152 OFF 4 | | 8 | 239.0.1.8 239.0.1.7 | 49152 49152 | OFF - OFF - | 4 🕌 4 🛶 4 🛶 | |
| 12 239.0.1.12 49152 OFF 4 | 12 239.0.1.12 49152 OFF 🗸 4 🗸 1 | | 9 10 11 12 | 239.0.1.9 239.0.1.10 239.0.1.11 239.0.1.12 | 49152 49152 49152 | OFF - OFF - | 4 🕌 4 🛶 4 🛶 | 1 |
| 12 239.0.1.12 49152 OFF + 4 + 13 239.0.1.13 49152 OFF + 4 + | 12 239.0.1.12 49152 OFF ↓ 4 ↓ 1 13 239.0.1.13 49152 OFF ↓ 4 ↓ 1 | | 9 10 11 12 13 | 239.0.1.9 239.0.1.10 239.0.1.11 239.0.1.12 239.0.1.13 | 49152 49152 49152 49152 | OFF • OFF • OFF • | 4 v 4 v 4 v 4 v | 1 |
| 12 239.0.1.12 49152 OFF + 4 + 13 239.0.1.13 49152 OFF + 4 + | 12 239.0.1.12 49152 OFF ↓ 4 ↓ 1 13 239.0.1.13 49152 OFF ↓ 4 ↓ 1 | | 9 10 11 12 13 | 239.0.1.9 239.0.1.10 239.0.1.11 239.0.1.12 239.0.1.13 | 49152 49152 49152 49152 | OFF • OFF • OFF • | 4 v 4 v 4 v 4 v | 1 |
| 12 239.0.1.12 49152 OFF 4 4 13 239.0.1.13 49152 OFF 4 4 14 239.0.1.14 49152 OFF 4 4 | 12 239.0.1.12 49152 OFF 4 1 13 239.0.1.13 49152 OFF 4 1 14 239.0.1.14 49152 OFF 4 1 15 239.0.1.15 49152 OFF 4 1 | 14 239.0.1.14 49152 OFF + 4 + 1 15 239.0.1.15 49152 OFF + 4 + 1 | 9 10 11 12 13 14 | 239.0.1.9 239.0.1.10 239.0.1.11 239.0.1.12 239.0.1.13 239.0.1.14 | 49152 49152 49152 49152 49152 | OFF - OFF - OFF - OFF - OFF - | $ \begin{array}{c} 4 \\ $ | 1 |

Navigate to the *IP SETTINGS* menu to configure the IP addresses at the output.

- Channel: The number of the channel
- Multicast address: Multicast IP address of the 16 streams. These
 multicast addresses will be needed to receive the streams on a PC/TV.
- UDP port: UDP port number
- VLAN: turn VLAN ON/OFF
- PCP: Priority Code Point: a 3-bit field which refers to the IEEE 802.1p priority. It indicates the frame priority level. Values are from 0 (best effort) to 7 (highest); 1 represents the lowest priority. These values can be used to prioritize different classes of traffic (voice, video, data, etc)
- VID: VLAN Identifier: a 12-bit field specifying the VLAN to which the frame belongs.

Navigate to the *SERVICE ASSIGNMENT* menu to configure the streams. Every Prostreamer module (except for the 5230) can stream up to 16 services.

| Service as | signment | | | | 5203 - ProSt | |
|------------|-----------|------|---|------------|--------------|-----|
| ation | Multicast | Port | | Name | SID On | CAM |
| 1 🗋 | - | | | | | 20 |
| 2 📄 | - | - | - | | - | 21 |
| з ы | - | - | - | | - | 20 |
| 4 📫 | | | • | | | 21 |
| 5 🜄 | | - | | | | 21 |
| e 💽 | - | - | - | - | - | 2 |
| 7 🜄 | - | - | - | | - | 21 |
| 8 📫 | | 1.1 | ÷ | | | 21 |
| 9 🗋 | - | - | - | | - | 21 |
| 10 📄 | - | - | - | | - | 28 |
| 11 💽 | • | | • | • | | 21 |
| 12 🔛 | • | 1 | ÷ | | | 28 |
| 13 🜄 | | - | • | | - | |
| 14 🔛 | - | - | - | - | - | |
| 15 💽 | | | 1 | | | |
| 18 📄 | | • | - | | | 2 |
| IP bitrat | r | | | / 100 Mbps | | |

- Multicast address: IP address of the stream
- Port: UDP port of the application
- Name: Name of the service
- SID: Service ID: Unique number, which identifies the service
- ON: Check this box to enable the streaming of this service, uncheck to stop the streaming.
- CAM: Check this box to pass this stream through the CAM slot for decryption.
- Icons:

add a new program to the list of services

- update the current service, this icon will become active if some setting has changed
- delete the service from the list, pressing this icon will remove the program permanently (you can add it again)

Press the 🔁 button to add a new service. A list of available services (from all 4 tuners) will appear on the screen.

| 🧿 johansson | | | Langu | uage: en 🗸 Alarm: 🔵 |
|-----------------------------------|------------------------|------|------------|--------------------------|
| DMH web interface 1.2.4 | 4.Release | | 5203 - Pro | oStreamer IP DVB-S2 (CI) |
| Summary | Service assignment | | | |
| Configuration DVB-S2 inputs | Multicast address Port | Name | SID On | САМ |
| IP output | 1 🛃 🔯 🔒 T1 EUROSPORTHI |) | 5041 | 2 X |
| IP settings Service assignment | 2 🔛 😥 🔒 T1 HISTORY HD | | 5042 | 2 🗙 |
| MPEG settings | 3 🛃 🔯 🔒 T1 FILMBOX HD | | 5043 | 2 🗙 |
| ini co acunga | 4 🛃 🔯 T1 NOVY HD | | 5044 | 2 🗙 |
| | 5 🛃 🔯 🔒 T1 Spektrum HD | | 5045 | 2 🛛 |
| | 6 🔛 | | | 2 🗙 |
| | 7 💟 | | | 2 🗙 |
| | 8 🕞 | | | 2 X |

Click on the service to be added and wait until the service is loaded into the list.

| DMH web interface 1.2 | .4.Release | | | | | 520 | 3 - Pro | Streame | r IP D\ | /B-S2 (CI |
|-----------------------------------|--------------|----------------|----------|---------|------|------|---------|---------|---------|-----------|
| Summary | Service assi | gnment | | | | | | | | |
| | | Multicast addr | ess Port | | Name | SID | On | CAM | | |
| IP output | 1 🖸 | 1 | T149EUR | | | 5041 | V | V | | |
| IP settings Service assignment | 2 🔛 | 1 | T1 HIST | ORY HD | | 5042 | | | | |
| MPEG settings | 3 🜄 | | T1 FILM | IBOX HD | | 5043 | | | | |
| | 4 💟 | | T1 NOV | Y HD | | 5044 | | | | |
| | 5 🔛 | | T1 Spr | Loading | 3 | 5045 | | | | |
| | 6 🔛 | | | 121 | | | | | | |
| | 7 💽 | | | | | | | | | |
| | 8 📄 | | | | | | | | | |

The list will be refreshed and the added service will appear.

| MH web interface 1.2.4 | 1.Release | 2 | | | | | | | 520 | 3 - Pro | Streame | er IP DV | /B-S2 |
|-----------------------------------|-----------|----------|-------------------|-------|------------|-----|---|----------------------|------|---------|---------|----------|-------|
| Summary | Servi | ce assig | Inment | | | | | | | | | | |
| Configuration DVB-S2 inputs | | L. | lulticast address | Port | | | | Name | SID | On | CAM | | |
| IP output | 1 | | 239.0.1.1 | 49152 | T1 | tv. | 6 | EUROSPORT HD | 5041 | V | V | 2 | × |
| IP settings Service assignment | 2 | | 239.0.1.2 | 49152 | T1 | W | | HISTORY HD | 5042 | | | 2 | × |
| MPEG settings | 3 | | 239.0.1.3 | 49152 | T1 | tv | â | FILMBOX HD | 5043 | v | V | 2 | × |
| | 4 | | 239.0.1.4 | 49152 | T1 | tv | | NOVY HD | 5044 | V | | 2 | × |
| | 5 | | 239.0.1.5 | 49152 | T1 | W | â | Travel Channel HD CE | 5048 | v | V | 2 | × |
| | 6 | | 239.0.1.6 | 49152 | T1 | tv) | | Eurosport HD DUT | 5049 | V | | 2 | × |
| | 7 | | 239.0.1.7 | 49152 | T 4 | tv | â | HISTORY HD | 5042 | V | V | 2 | X |
| | 8 | | | | 4 | | | | 1.1 | | | 2 | |

You can add up to 16 programs, as long as the total bitrate is lower than 100 Mbps. The bitrate is shown in the bar on the bottom of the *SERVICE ASSIGNMENT* page:

| IP bitrate: | 0/ | 100 | Mbps |
|-------------|--------|-----|------|
| | | | |

If the bar is green, the total bitrate is good and the chance of having an overflow is quite small. However, if this bar becomes orange, this means the bitrate is close to an overflow. This will happen if the total bitrate is higher than 85 Mbps. If this happens, it is advisable to delete some services, until the bar becomes green again.

If the bar becomes red, there is an overflow. This can be due to the fact that the total bitrate exceeds 100 Mbps, or there can be a CAM overflow. Delete services until the bar becomes green again.

CONFIGURATION OF THE MPEG SETTINGS

This menu item is only visible with modules having a DVB-S2 input.

| 0 johansson | | Language: en 🕶 Alarm: 🔵 | | | |
|--|---|-------------------------|--|--|--|
| DMH web interface 1.2.4.F | MH web interface 1.2.4.Release 5203 - Pro Streamer IP DVE | | | | |
| Summary Configuration DVB-S2 inputs IP output | MPEG settings | | | | |
| | Copyright © 2011 UNITRON n.v. | | | | |

- Forward EPG tables: Forward Electronic Program Guide tables to the TV's
- CAS forwarding: Forward the Control Access System tables (CAT, EMM, ECM) to descramble the programs with a set-top box
 - CAT: Conditional Access Table
 - ° EMM: Entitlement Management Message
 - $\circ\,\text{ECM}:$ Entitlement Control Message
- Block others: Block private data
- PID share: Enable sharing of the PES, PCR and ECM

4 TECHNICAL SPECIFICATIONS

| DVB-S2 | | 5202 | 5203 |
|-----------------------|-----------------------------------|---|--|
| INPUT | interface | 4 x QPSK | / 8PSK |
| OUTPUT | standard protocols capacity | IEEE 802.3 10/ Multicast up to 16 simultaneous str | IP/UDP |
| | RF input with loop-through | 8 x fem | ale F |
| CONNECTORS | power supply with loop-through | 4 x 'banana | a sockeť |
| | management port | RJ-4 | 15 |
| | streaming port | RJ-4 | 15 |
| | PCMCIA CAM slot | no | yes |
| | supply voltage | +15 V | DC |
| GENERAL | consumption | 0.6 A | 0.8 A |
| | LED indications | 4x lock status, | power, alarm |
| PERFORMANCE | transport stream processing | de-multiplexing of up PSI/SI p PID filtering/rema regeneration of P EMM/ECM pa IP/UDP encapsulation of | arsing pping capability AT/PMT tables iss-through |
| OPERATING TEMPERATURE | | 0 to +40°C | |
| DIMENSIONS | | 5RU x 8TE x 195 mm | |

| DVB-T | | 5210 | 5211 |
|-----------------------|-----------------------------------|---|--|
| INPUT | interface | 4 x C(|)FDM |
| OUTPUT | standard protocols capacity | IEEE 802.3 10 Multicas up to 16 simultaneous st | t IP/UDP |
| | RF input with loop-through | 2 x fer | nale F |
| CONNECTORS | power supply with loop-through | 4 x 'banar | na sockeť |
| | management port | RJ | -45 |
| | streaming port | RJ | -45 |
| | PCMCIA CAM slot | no | yes |
| | supply voltage | +15 | VDC |
| GENERAL | consumption | 0.5 A | 0.7 A |
| | LED indications | 4x lock status, power, alarm | |
| PERFORMANCE | transport stream processing | regeneration of EMM/ECM p | parsing apping capability PAT/PMT tables |
| OPERATING TEMPERATURE | | 0 to +40°C | |
| DIMENSIONS | | 5RU x 8TE x 195 mm | |

A / V

| INPUT | interface | 4 x A / V (CVBS) |
|-----------------------|-----------------------------------|--|
| OUTPUT | standard protocols capacity | 4 streams |
| | RF input with loop-through | video: 4 x CINCH audio: 4 x jack Ø 3,5 mm stereo |
| CONNECTORS | power supply with loop-through | 4 x 'banana socket' |
| | management port | RJ-45 |
| | streaming port | RJ-45 |
| | supply voltage | +15 VDC |
| GENERAL | consumption | 0.65 A |
| | LED indications | power, alarm |
| PERFORMANCE | transport stream processing | encoding: video: MPEG-2 audio: MPEG-1 IP/UDP encapsulation of 4 MPEG streams |
| OPERATING TEMPERATURE | | 0 to +40°C |
| DIMENSIONS | | 5RU x 8TE x 195 mm |

5 CONDITIONS OF WARRANTY

PERIOD OF WARRANTY

Unitron N.V. warrants the product as being free from defects in material and workmanship for a period of 24 months starting from the date of production indicated on it. See note below.

If during this period of warranty the product proves defective, under normal use, due to defective materials or workmanship, Unitron N.V, at its sole option, will repair or replace the product. Return the product to your local dealer for reparation.

THE WARRANTY IS APPLIED ONLY FOR DEFECTS IN MATERIAL AND WORKMANSHIP AND DOES NOT COVER DAMAGE RESULTING FROM

- Misuse or use of the product out of its specifications.
- Installation or use in a manner inconsistent with the technical or safety standards in force in the country where the product is used.
- Use of non-suitable accessories (power supply, adapters ...).
- Installation in a defect system.
- External cause beyond the control of Unitron N.V. such as drop, accidents, lightning, water, fire, improper ventilation...

THE WARRANTY IS NOT APPLIED IF

- Production date or serial number on the product is illegible, altered, deleted or removed.
- The product has been opened or repaired by a non-authorised person.

NOTE

Date of production is MMYY format, example 0411 = April 2011. For the serial number barcodes, the date corresponds to the 4 first numbers.

6 UHF FREQUENCY TABLE

| TV band | Channel | Frequency MHz | | | |
|---------|----------|--------------------|--|--|--|
| IV | 21 | 470-478 | | | |
| | 22 | 478-486 | | | |
| | 23 | 486-494 | | | |
| | 24 | 494-502 | | | |
| | 25 | 502-510 | | | |
| | 26 | 510-518 | | | |
| | 27 | 518-526 | | | |
| | 28 | 526-534 | | | |
| | 29 | 534-542 | | | |
| | 30 | 542-550 | | | |
| | 31 | 550-558 | | | |
| | 32 | 558-566 | | | |
| | 33 | 566-574 | | | |
| | 34 | 574-582 | | | |
| | 35 | 582-590 | | | |
| | 36 | 590-598 | | | |
| | 37 | 598-606 | | | |
| V | 38 | 606-614 | | | |
| | 39 | 614-622 | | | |
| | 40 | 622-630 | | | |
| | 41 | 630-638 | | | |
| | 42 | 638-646 | | | |
| | 43 44 | 646-654 | | | |
| | | 654-662 662-670 | | | |
| | 45 46 | 670-678 | | | |
| | 40 | 678-686 | | | |
| | 48 | 686-694 | | | |
| | 49 | 694-702 | | | |
| | 50 | 702-710 | | | |
| | 51 | 710-718 | | | |
| | 52 | 718-726 | | | |
| | 53 | 726-734 | | | |
| | 54 | 734-742 | | | |
| | 55 | 742-750 | | | |
| | 56 | 750-758 | | | |
| | 57 | 758-766 | | | |
| | 58 | 766-774 | | | |
| | 59 | 774-782 | | | |
| | 60 | 782-790 | | | |
| | 61 | 790-798 | | | |
| | 62 | 798-806 | | | |
| | 63 | 806-814 | | | |
| | 64 | 814-822 | | | |
| | 65 | 822-830 | | | |
| | 66 | 830-838 | | | |
| | 67 | 838-846 | | | |
| | 68 | 846-854 | | | |
| | 69 | 854-862 | | | |

7 POWER CONVERSION TABLE

| μV 75 Ω | dBµV | dBm | mV 75 Ω | dBµV | dBm | V 75 Ω | dBµV | dBm |
|------------|----------|------------|------------|------------|------------|--------|-------|-------|
| 1 | 0 | -109 | 1 | 60 | -49 | 1 | 120 | +11 |
| 1.5 | 3.5 | -105.5 | 1.5 | 63.5 | -45.5 | 1.5 | 123.5 | +14.5 |
| 2 | 6 | -103 | 2 | 66 | -43 | 2 | 126 | +17 |
| 2.5 | 8.0 | -101 | 2.5 | 68 | -41 | 2.5 | 128 | +19 |
| 3 | 9.5 | -99.5 | 3 | 69.5 | -39.5 | 3 | 129.5 | +20.5 |
| 3.5 | 11 | -98 | 3.5 | 71 | -38 | 3.5 | 131 | +22 |
| 4 | 12 | -97 | 4 | 72 | -37 | 4 | 132 | +23 |
| 4.5 | 13 | -96 | 4.5 | 73 | -36 | 4.5 | 133 | +24 |
| 5 | 14 | -95 | 5 | 74 | -35 | 5 | 134 | +25 |
| 6 | 15.5 | -93.5 | 6 | 75.5 | -33.5 | 6 | 135.5 | +26.5 |
| 7 | 17 | -92 | 7 | 77 | -32 | 7 | 137 | +28 |
| 8 | 18 | -91 | 8 | 78 | -31 | 8 | 138 | +29 |
| 9 | 19 | -90 | 9 | 79 | -30 | 9 | 139 | +30 |
| 10 | 20 | -89 | 10 | 80 | -29 | 10 | 140 | +31 |
| 15 | 23.5 | -85.5 | 15 | 83.5 | -25.5 | | | |
| 20 | 26 | -83 | 20 | 86 | -23 | | | |
| 25 | 28 | -81 | 25 | 88 | -21 | | | |
| 30 | 29.5 | -79.5 | 30 | 89.5 | -19.5 | | | |
| 35 | 31 | -78 | 35 | 91 | -18 | | | |
| 40 | 32 | -77 | 40 | 92 | -17 | | | |
| 45 | 33 | -76 | 45 | 93 | -16 | | | |
| 50 | 34 | -75 | 50 | 94 | -15 | | | |
| 60 | 35.5 | -73.5 | 60 | 95.5 | -13.5 | | | |
| 70 | 37 | -72 | 70 | 97 | -12 | | | |
| 80 | 38 | -71 | 80 | 98 | -11 | | | |
| 90 | 39 | -70 | 90 | 99 | -10 | | | |
| 100 | 40 | -69 | 100 | 100 | -9 | | | |
| 150 | 43.5 | -66.5 | 150 | 103.5 | -5.5 | | | |
| 200 | 46 | -63 | 200 | 106 | -3 | | | |
| 250 | 48 | -61 | 250 | 108 | -1 | | | |
| 300 | 49.5 | -59.5 | 300 | 109.5 | +0.5 | | | |
| 350 | 51 | -58 | 350 | 111 | +2 | | | |
| 400 | 52 | -57 | 400 | 112 | +3 | | | |
| 450 | 53 54 | -56 | 450 | 113 | +4 | | | |
| 500 | | -55 | 500 | 114 | +5 | | | |
| 600 700 | 55.5 | -53.5 | 600 700 | 115.5 | +6.5 +8 | | | |
| 700 800 | 57 58 | -52 -51 | 800 | 117 118 | +8 +9 | | | |
| 900 | 58 59 | -51 | 900 | 118 | +9 +10 | | | |
| 300 | 09 | -30 | 1000 | 120 | +10 +11 | | | |
| | | | 1000 | 120 | +11 | | | |



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