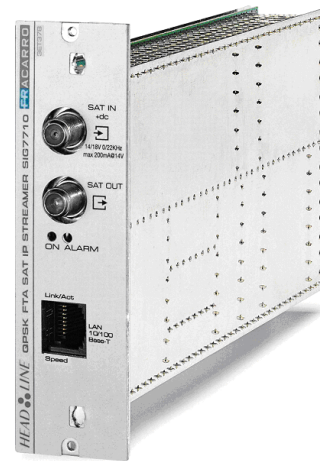
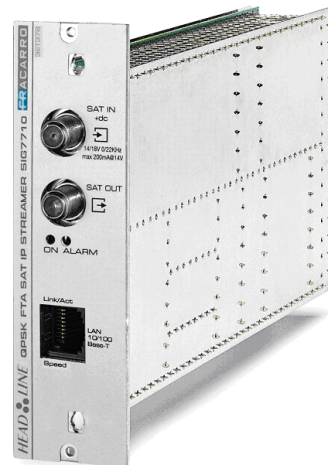
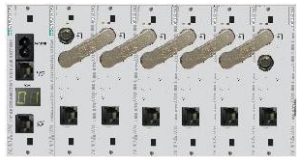


04/06/2008



HEADLINE RANGE: FRACARRO'S ANSWER FOR HEADEND SYSTEM

04/06/2008

As high professional solution Fracarro has developed:

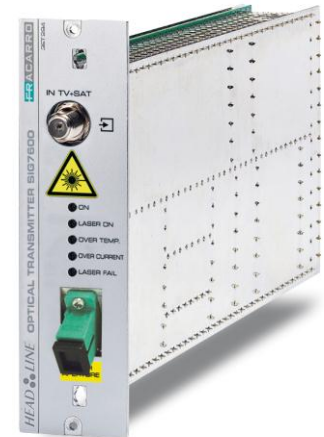


Digital and Analogue
Receivers:

- SAT
- DTT

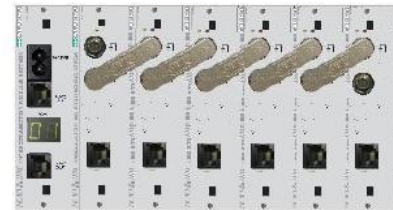


Modulators



Fibre Optics

In collaboration with Engineering Department of University of Padua we have developed an TV over IP solution



shaping the future



SIG-7710
Input
Preset
Program List
Multicast
Network
Main menu
Logout

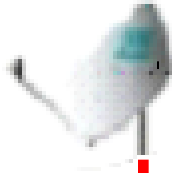
Send	Program Name	Provider	FreeToAir	Service type	Multicast	Bit Rate	Properties
Stop	RAI1	RAI	Yes	digital television service	Group 1	4475 kbit/s	Modify
Send	Notturmo italiano	RAI	Yes	digital radio sound service	Group 8	0 kbit/s	Modify
Send	FD leggera	RAI	Yes	digital radio sound service	Group 9	0 kbit/s	Modify
Stop	Rai Gulp	Rai	Yes	digital television service	Group 7	3968 kbit/s	Modify
Send	RaiMed	RAI	Yes	digital television service	Group 6	0 kbit/s	Modify
Send	Senato	RAI	Yes	digital television service	Group 5	0 kbit/s	Modify
Send	RaiEdu2	RAI	Yes	digital television service	Group 4	0 kbit/s	Modify
Stop	RAI3	RAI	Yes	digital television service	Group 3	5250 kbit/s	Modify
Stop	RAI2	RAI	Yes	digital television service	Group 2	5095 kbit/s	Modify
Total Bit Rate:						18789 kbit/s	



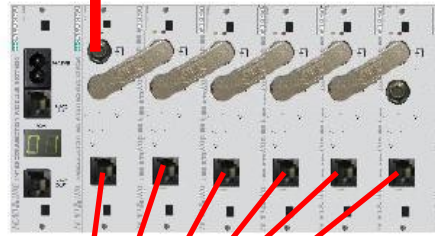
04/06/2008



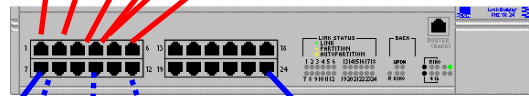
SAT Antennas



IP Encoder



Switch Ethernet



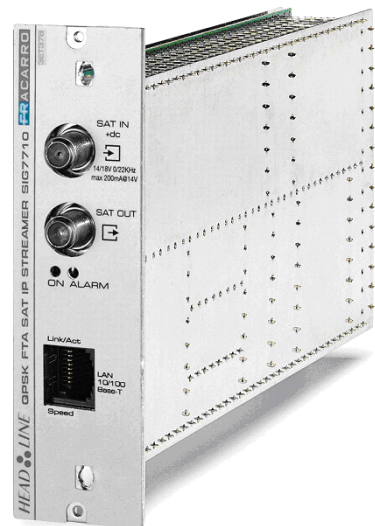
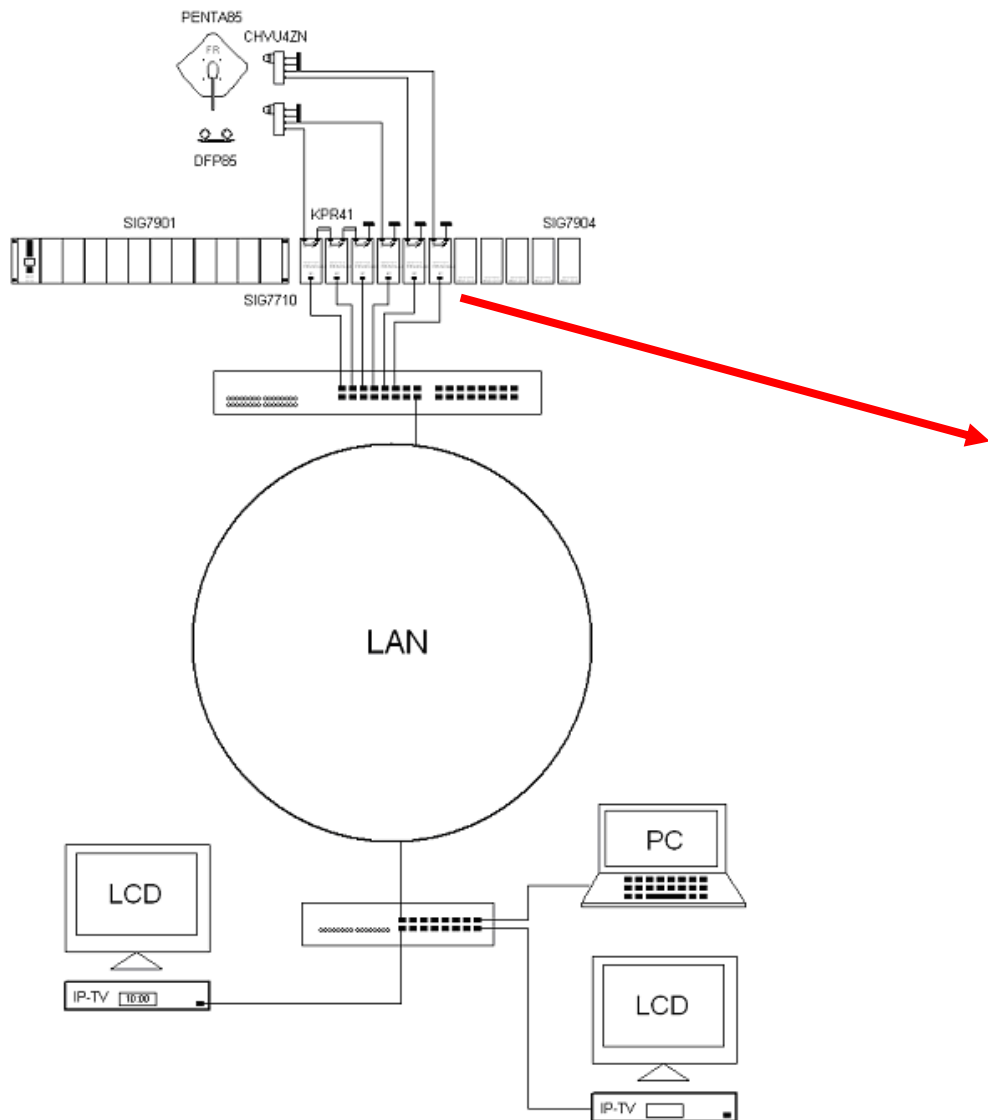
PC



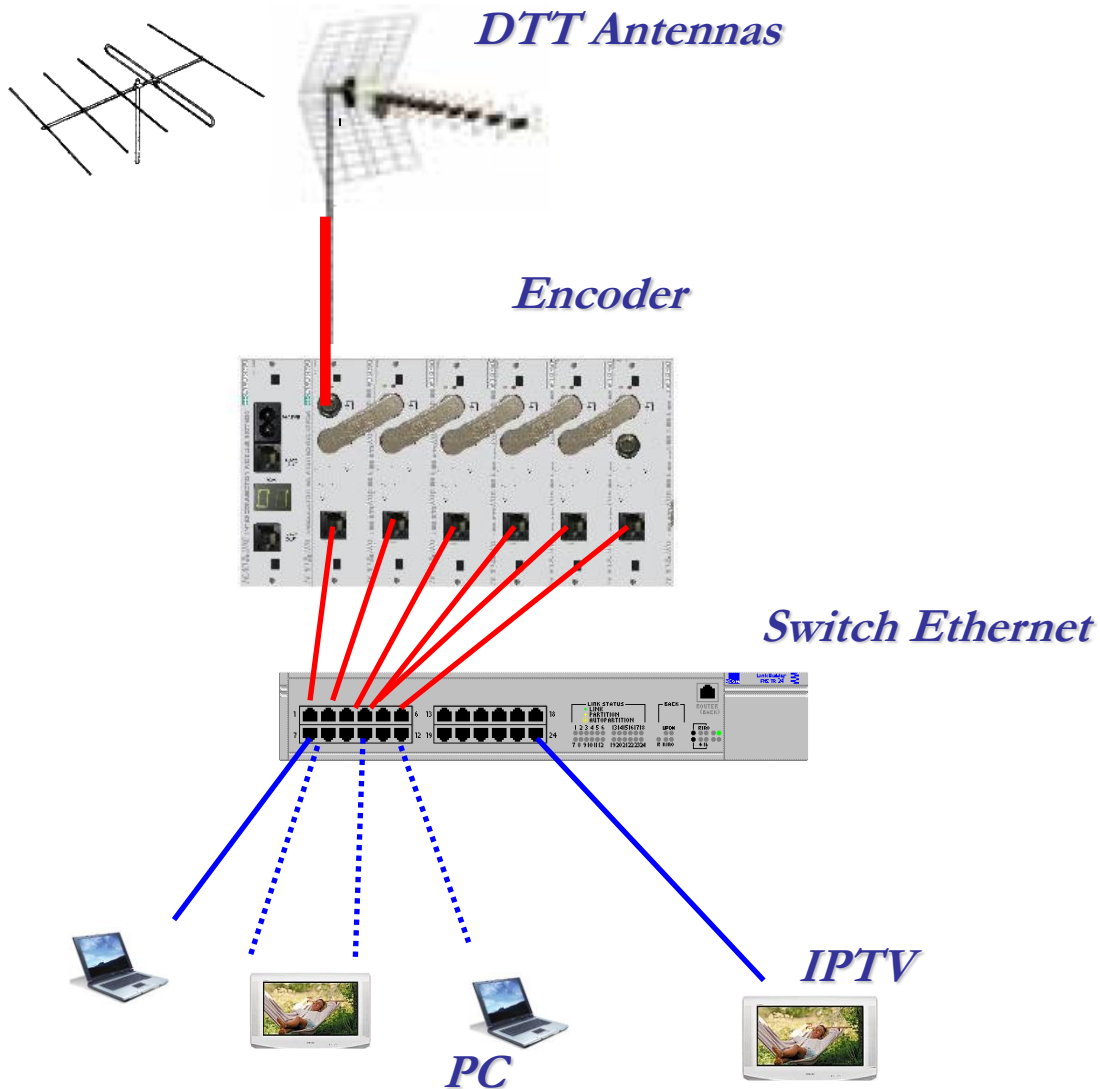
IPTV

SIG7710 – SAT2IP

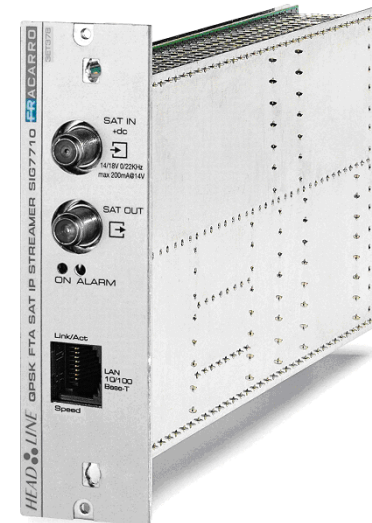
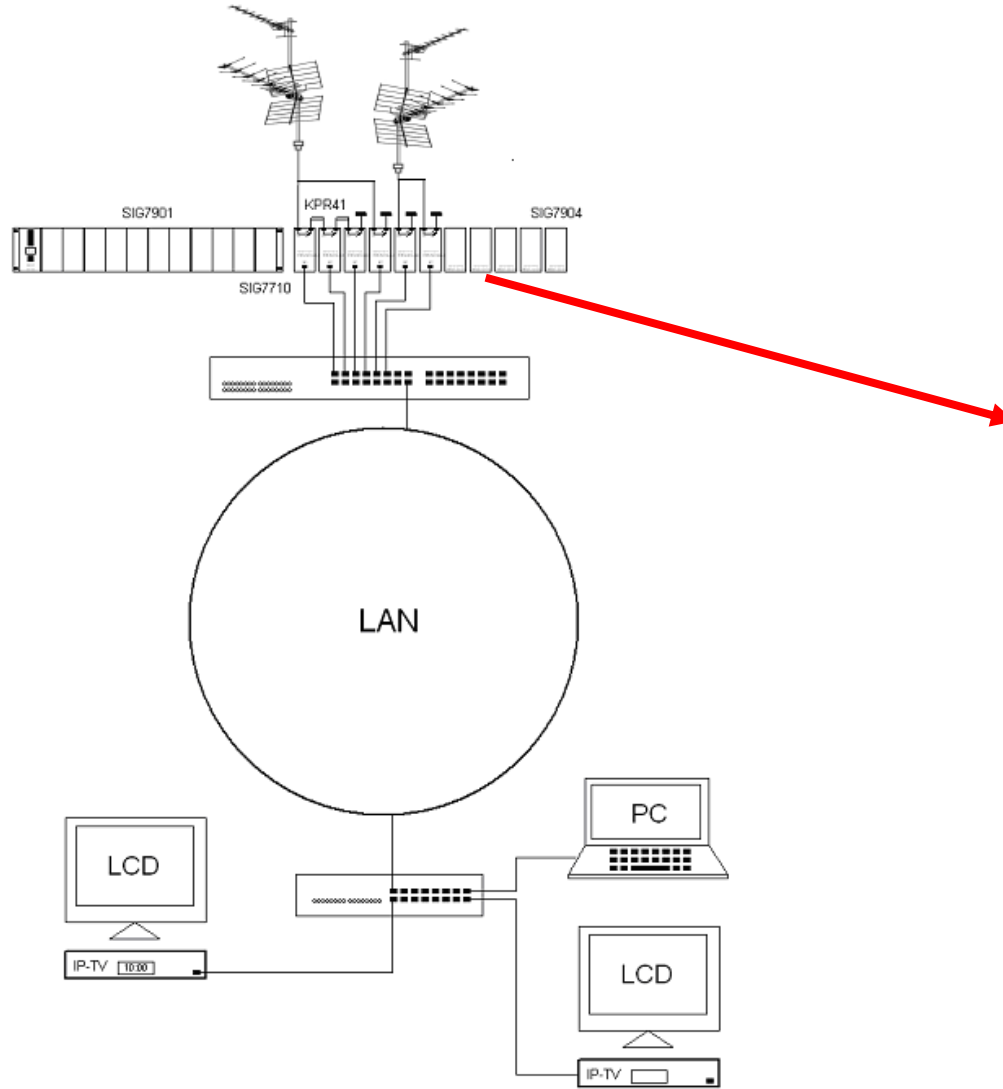
04/06/2008



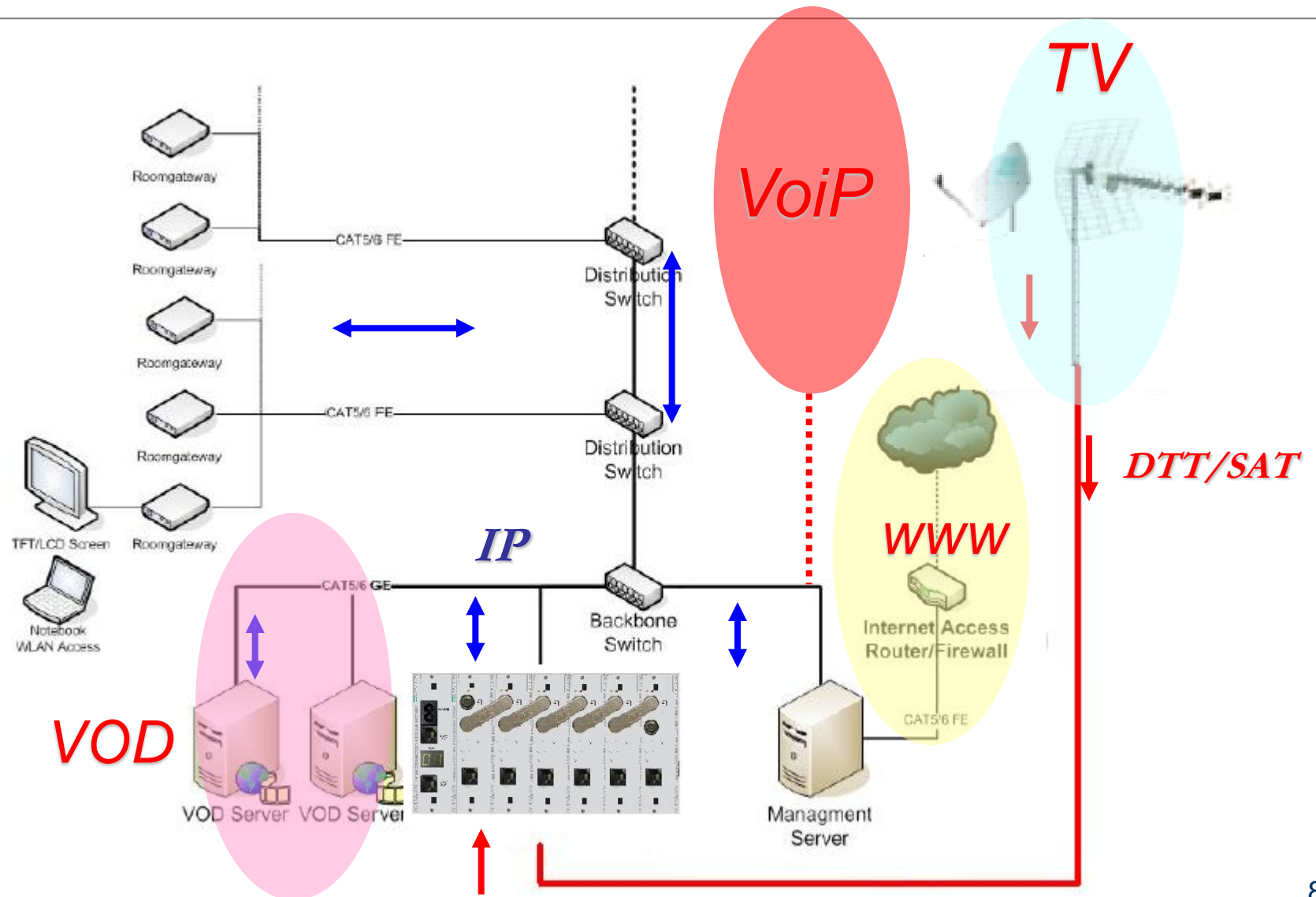
DTT (COFDM) over IP



04/06/2008



04/06/2008

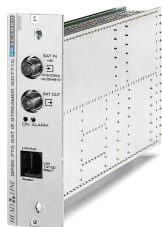


Pre-mounted 19" sub-rack to install the module in 19" rack, 12 modules (1 interconnection module + 11 other modules)



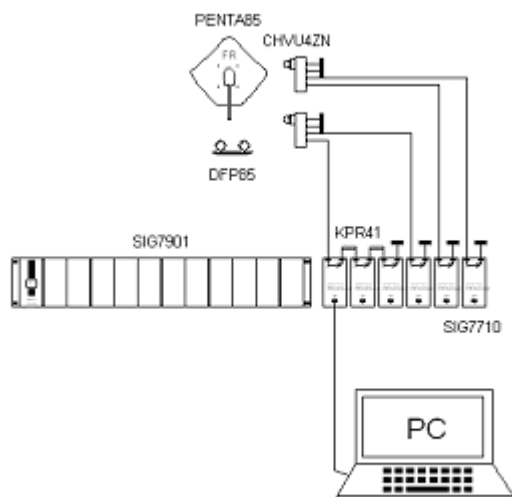
Wall mount available to install 7 modules (1 interconnection module + 6 other modules)



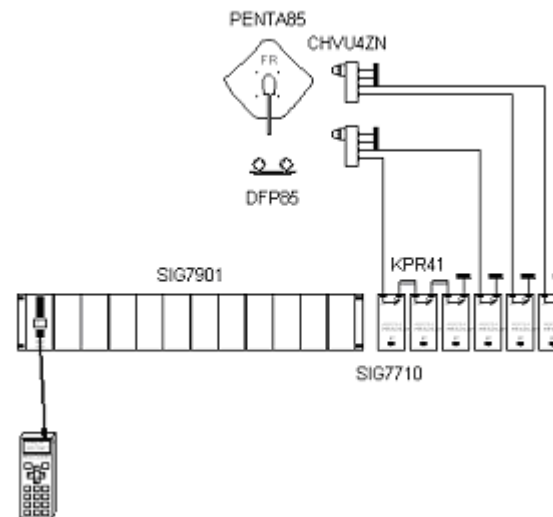


HeadEnd SETUP

- *Two choices*

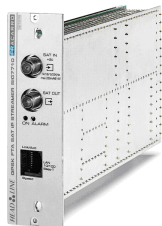


Web Interface



RS485 Interface

04/06/2008



Input SETUP

- Satellite (DiSEqC)
- Frequency
- Polarity
- Symbol Rate
- FEC

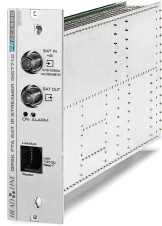
shaping the future



SIG-7710
Input
Preset
Program List
Multicast
Network
Main menu
Logout

Frequency IF	<input type="text" value="1166"/> MHz
Frequency OL:	Auto
LNB:	<input type="radio"/> Off <input type="radio"/> 14V - 0kHz <input type="radio"/> 18V - 0kHz <input checked="" type="radio"/> 14V - 22kHz <input type="radio"/> 18V - 22kHz
DiSEqC:	<input checked="" type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D
Symbol Rate:	<input type="text" value="27500"/> kBaud
FEC:	Auto ▾

Save



Multicast Address Assignment

- IP Group
- RTP/UTP Layer
- Group Enabling

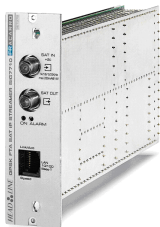
shaping the future



SIG-7710
Input
Preset
Program List
Multicast
Network
Main menu
Logout

Group	Multicast IP	Multicast Port	RTP Layer	Enable
1	224.6.0.1	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
2	224.6.0.2	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
3	224.6.0.3	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
4	224.6.0.4	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
5	224.6.0.5	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
6	224.6.0.6	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
7	224.6.0.7	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
8	224.6.0.8	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
9	224.6.0.9	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input checked="" type="checkbox"/>
10	224.6.0.10	2150	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input type="checkbox"/>

04/06/2008



shaping the future

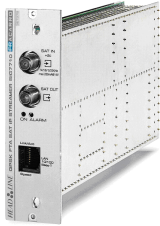
Program List Choice

- Info for each program
- Enabling info (green/white)
- Group indication
- Bit Rate Indication
- Total Bit Rate indication



SIG-7710
Input
Preset
Program List
Multicast
Network
Main menu
Logout

Send	Program Name	Provider	FreeToAir	Service type	Multicast	Bit Rate	Properties
Stop	RAI1	RAI	Yes	digital television service	Group 1	4475 kbit/s	Modify
Send	Notturmo italiano	RAI	Yes	digital radio sound service	Group 8	0 kbit/s	Modify
Send	FD leggera	RAI	Yes	digital radio sound service	Group 9	0 kbit/s	Modify
Stop	Rai Gulp	Rai	Yes	digital television service	Group 7	3968 kbit/s	Modify
Send	RaiMed	RAI	Yes	digital television service	Group 6	0 kbit/s	Modify
Send	Senato	RAI	Yes	digital television service	Group 5	0 kbit/s	Modify
Send	RaiEdu2	RAI	Yes	digital television service	Group 4	0 kbit/s	Modify
Stop	RAI3	RAI	Yes	digital television service	Group 3	5250 kbit/s	Modify
Stop	RAI2	RAI	Yes	digital television service	Group 2	5095 kbit/s	Modify
Total Bit Rate:						18789 kbit/s	



Measurement

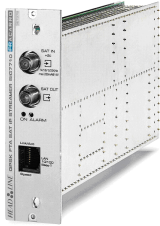
- *BER Indication*
- *Signal to Noise Indication*

shaping the future



SIG-7710
Setup
Measure
Reboot
Home
Logout

BER:	1 E-8
S/N:	13 dB



Network Indication

- *Device IP*
- *Netmask*
- *Gateway*
- *DHCP*

shaping the future



SIG-7710
Input
Preset
Program List
Multicast
Network
Main menu
Logout

DHCP	<input checked="" type="radio"/> Disabled <input type="radio"/> Enabled
Network IP	<input type="text" value="10.1.247.124"/>
Netmask	<input type="text" value="255.255.0.0"/>
Gateway:	<input type="text" value="0.0.0.0"/>

Save

04/06/2008

Data Sheet

SIG7710 – QPSK2IP

SIG7710 is an IP Encoder that works as a DVB-T to IP encoder. It receives DVB-T signals and converts them into IP streams. It supports QPSK2IP and can be used for live streaming or recording. It has a built-in hard drive for recording and a USB port for data transfer.

GENERAL	
Model	SIG7710
Product Name	SIG7710
Product Code	000-0000
Product Type	IP Encoder
Product Size	19" 1U
Product Weight	1.5 kg
Product Color	Black
Product Material	Aluminum
Product Finish	Black
Product Dimensions	445 x 133 x 44 mm
Product Weight	1.5 kg
Product Power	100 W
Product Temperature	0 to 40 °C
Product Humidity	10 to 90% RH
Product Shock	0 to 10 g
Product Vibration	0 to 10 g
Product Safety	CE, FCC, RoHS
Product Warranty	3 years

SIG7730 – COFDM2IP

SIG7730 is an IP Encoder that works as a DVB-T to IP encoder. It receives DVB-T signals and converts them into IP streams. It supports COFDM2IP and can be used for live streaming or recording. It has a built-in hard drive for recording and a USB port for data transfer.

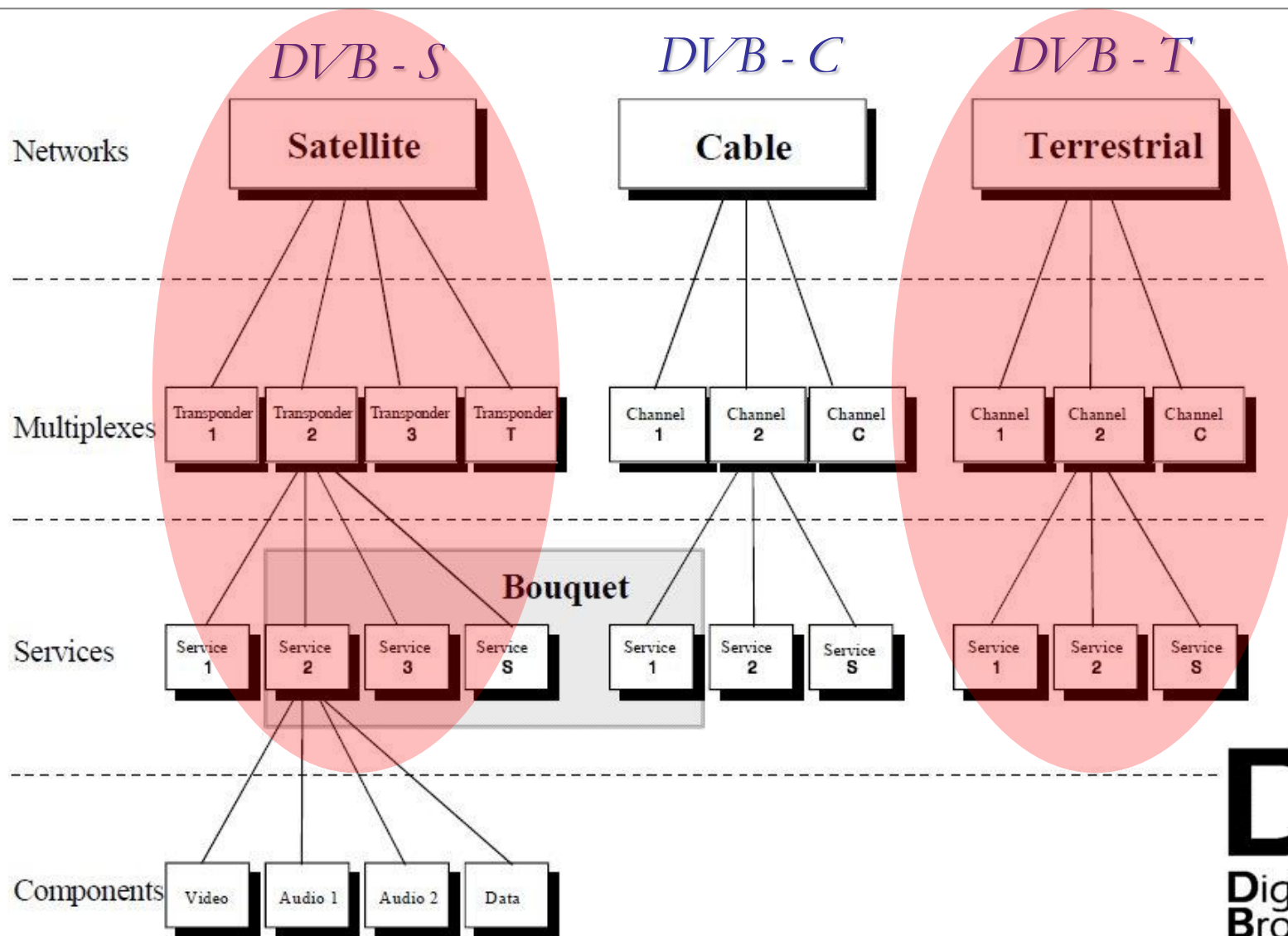
GENERAL	
Model	SIG7730
Product Name	SIG7730
Product Code	000-0000
Product Type	IP Encoder
Product Size	19" 1U
Product Weight	1.5 kg
Product Color	Black
Product Material	Aluminum
Product Finish	Black
Product Dimensions	445 x 133 x 44 mm
Product Weight	1.5 kg
Product Power	100 W
Product Temperature	0 to 40 °C
Product Humidity	10 to 90% RH
Product Shock	0 to 10 g
Product Vibration	0 to 10 g
Product Safety	CE, FCC, RoHS
Product Warranty	3 years

SIG7750 – AV2IP

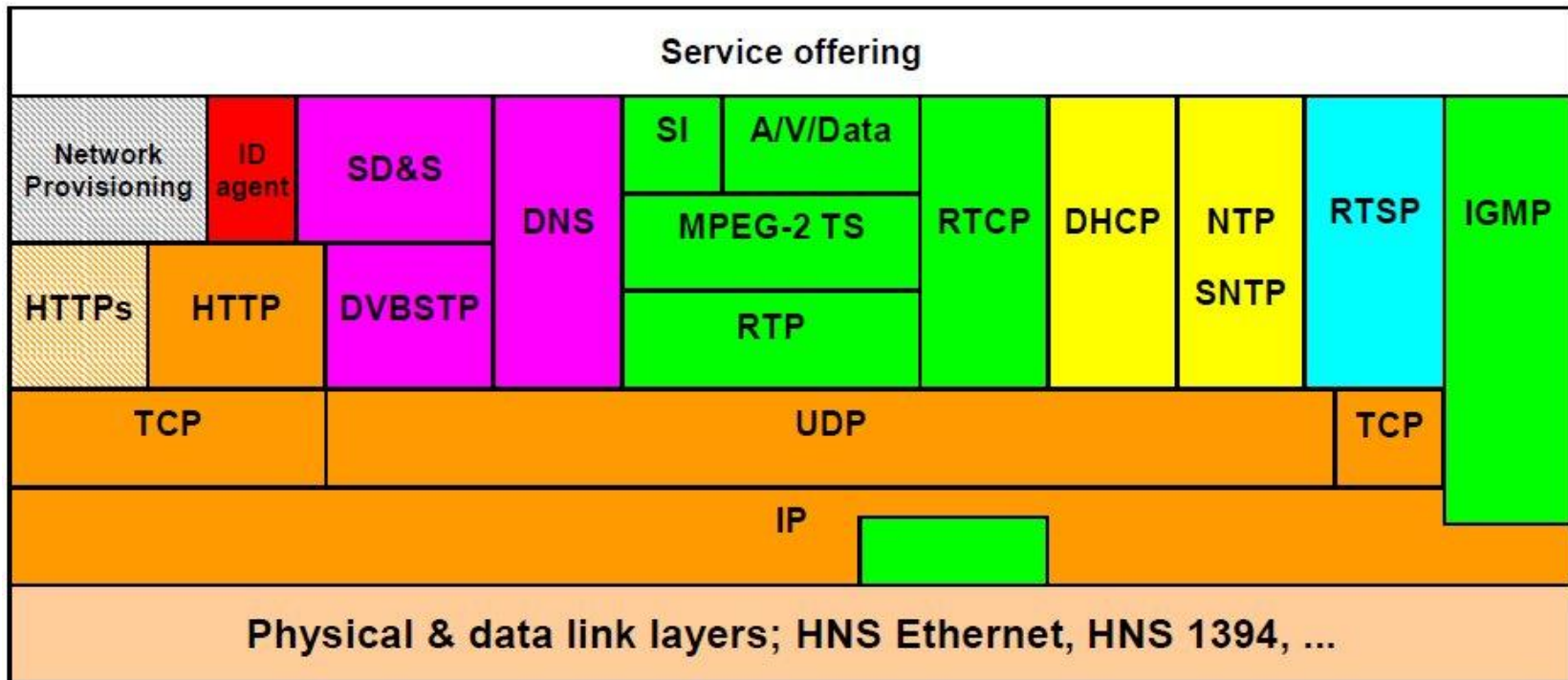
SIG7750 is an IP Encoder that works as a DVB-T to IP encoder. It receives DVB-T signals and converts them into IP streams. It supports AV2IP and can be used for live streaming or recording. It has a built-in hard drive for recording and a USB port for data transfer.

GENERAL	
Model	SIG7750
Product Name	SIG7750
Product Code	000-0000
Product Type	IP Encoder
Product Size	19" 1U
Product Weight	1.5 kg
Product Color	Black
Product Material	Aluminum
Product Finish	Black
Product Dimensions	445 x 133 x 44 mm
Product Weight	1.5 kg
Product Power	100 W
Product Temperature	0 to 40 °C
Product Humidity	10 to 90% RH
Product Shock	0 to 10 g
Product Vibration	0 to 10 g
Product Safety	CE, FCC, RoHS
Product Warranty	3 years

04/06/2008



- Encoding TS MPEG-2
- Standard ETSI TS 102 034



04/06/2008



Availability (mass production):

- *SIG7710 (QPSK FTA) : Q3 2008*
- *SIG7730 (COFDM) : Q4 2008*
- *SIG7720 (QPSK CI) : Q1 2009*
- *SIG7750 (Analogue) : Q1 2009*

.... And now ... live DEMO