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## Requests for RF and IF designs

Please note that we are not able to make designs without the information below. Each design is specially made for your demands and depends on the accuracy of information you supply.

### Our recommendations for SMATV projects are:

- Usage of adequate dish diameters to get a signal level and quality of at least 78 dBm and a C/N ratio from 12,5 dB
- Usage of cables with screening factor of 100 dB and higher
- Usage of crimp or compression F- connectors
- Calibration of the whole system with adequate measurement equipment
- Reportage of the system with adequate measurement equipment

For better readability please fill this form before printing it. To do so, click on the lines and type your text.

### 1.) Design requestor

Company:	_____	Contact person:	_____
Country:	_____	Installation date:	_____
Phone:	_____	Final quotation date:	_____
Email:	_____	Country:	_____
		Number of attachments:	_____

### 2.) Reception of

		Quantity of IF signals:			
		VL/R*	HL/L*	VH*	HH*
Sample:	<i>Satellite position X:</i> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Satellite position 1:</b> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Satellite position 2:</b> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Satellite position 3:</b> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Satellite position 4:</b> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Satellite position 5:</b> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* VL/ R = vertical low or right circular  
 \* HL/ L = horizontal low or left circular

\* VH = vertical high  
 \* HH = horizontal high

## Additional terrestrial reception (if no terrestrial needed go to 2.)

- only FM
- VHF Band I (47-68 MHz)
- VHF Band III (109-470MHz)
- UHF Band IV/V (470-862 MHz) / how many terrestrial channels: \_\_\_\_\_
- CATV / or headend / how many channels: \_\_\_\_\_ (see last page)

### Return path for internet or phone over coax cable :

return path up to:  30MHz or  65MHz

## 3.) Distribution system

- Central
- On each floor
- \_\_\_\_\_

Amount of floors: \_\_\_\_\_

Amount of outlets on each floors: \_\_\_\_\_

**If there are different type of outlets on each floor please attach a table.**

Total amount of outlets: \_\_\_\_\_

## 4.) Cable Data

Manufacturer: \_\_\_\_\_

Type: \_\_\_\_\_

Loss (in dB) at: 47 MHz: \_\_\_\_\_

862 MHz: \_\_\_\_\_

950 MHz: \_\_\_\_\_

2200 MHz: \_\_\_\_\_

You can also attach a datasheet if available.

### 5.) Cable length (in meters)

a.) Between LNC and first amplifier: \_\_\_\_\_

b.) Between the cascades: (only needed if no central distribution is used) \_\_\_\_\_

c.) Between the multiswitches / cascades and the TV outlets:

Minimum cable length: \_\_\_\_\_

Maximum cable length: \_\_\_\_\_

### 6.) Sketches are generally helpful

- A schematically sketch or a picture of the building or of the location of the buildings
- The point where the dishes are mounted at the building
- The place of cable conduit within the building (right side middle or left side)
- The information how you want to make the installation
- The types of cables are only needed if you are using different types of cables
- The possible location for AC power supply

**Please mark elements in your sketches with the description types above if possible.**

### 7.) Submit your design request

SPAUN offers a complimentary planning support for wholesalers and installers. Since SPAUN don't know the local conditions of your project we depend on the accuracy of information you provide. Therefore we exclude any liability particularly for consequential damages in relation with our planning support. SPAUN planning support is subject to our General Terms and Conditions. ([http://www.spaun.de/pdf/spaun\\_agb\\_en.pdf](http://www.spaun.de/pdf/spaun_agb_en.pdf))

**Date:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

Please send the filled form via email or fax to SPAUN.  
Please don't forget to attach additional materials (datasheets, sketches) if available.

OR

**Fax : +49(0)7731/8673-28**

**Email : [hotline@spaun.de](mailto:hotline@spaun.de)**

## Additional information concerning Headends

How many channels:

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Number of DVB-T for PAL:

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Number of DVB-S for PAL:

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Number of DVB-S for QAM:

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Number of CI and encoding:

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Number of DVB-S for FM:

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Number of Free to air:

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Options for program packages:

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Surveillance camera:

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Hotel information channel:

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Return path:

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**Please keep in mind: headend equipment should always be placed in an airconditioned environment, if the ambient temperature at any time reaches 95°F or more**