

## **Multichannel headend Multiband system** amplifier

- FM, BIII & DAB and UHF inputs
- high output level
- built-in gain controls
- DC feeding for preamplifiers through RF inputs
- DIN rail or wall mounting
- robust die-cast housing
- connectors: 4xRF - type F

screw terminal block for DC entry power distribution bus



## modular power supply

with integrated RF combiner

- switch-mode technology
- short circuit and overload protected

**Power supply** 

- DIN rail or wall mounting
- robust die-cast housing
- connectors: 3xRF - type F screw terminal block for DC output power distribution bus



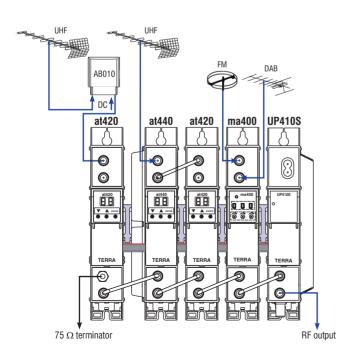
## Technical specifications

| TY                          | PE                      | UP410S   |
|-----------------------------|-------------------------|--|
| Ordering number             |                         | 028748   |
| Power supply                | input voltage           | 187-250 V∼ 50/60 Hz                              |
|                             | output voltage, current | 12 V 4.5 A max.                                  |
|                             | power consumption       | 65 W max.  |
| RF combiner                 | frequency range         | 47-2400 MHz                                      |
|                             | insertion loss          | 4 dB at 862 MHz<br>6 dB at 2400 MHz              |
|                             | isolation               | ≥ 20 dB  |
|                             | return loss             | $\geq$ 20 dB at 862 MHz $\geq$ 12 dB at 2400 MHz |
| Operating temperature range |                         | 0° ÷ +50° C                                      |
| Dimensions/Weight (packed)  |                         | 48x198x107.5 mm/0.97 kg                          |

## Technical specifications

| T Y   | PE                   | ma400                      |
|---|----------------------|----------------------------|
| Ordering number                             |                      | 10503                      |
| Gain  | FM (88-108 MHz)      | 30 dB                      |
|   | VHFIII (174-260 MHz) | 30 dB                      |
|   | UHF (470-862 MHz)    | 30 dB                      |
| Number of inputs                            |                      | 3                          |
| Noise figure                                |                      | VHF < 7 dB; UHF < 5 dB     |
| Maximal output level IMD3=60 dB (DIN45004B) |                      | VHF 116 dBμV; UHF 118 dBμV |
| Gain control                                | attenuator           | 0 ÷ -15 dB                 |
|   | switch               | 0/-10 dB                   |
| Return loss                                 |                      | > 10 dB                    |
| DC feeding for external (total)             |                      | 12 V 0.1 A max.            |
| Current consumption*                        |                      | 12 V 0.48 A                |
| Operating temperature range                 |                      | 0° ÷ +50° C                |
| Dimensions/Weight (packed)                  |                      | 36x198x107.5 mm/ 0.9 kg    |

\* without external DC loading



Application diagram of filtering 8 TV channels from 2 directions & combining with FM and DAB signals.

DC power is distributed from single power supply by power distribution bus.

AB010 - fixed gain UHF masthead amplifier at420 - two sections TV channel amplifier at440 - four sections TV channel amplifier