

# NEXUM System

- Adjacent Amplifier: **NEX 400 / NEX 500**
- 1<sup>st</sup> IF SAT Amplifier: **IFA 400**
- FM and DAB Radio Amplifier: **NEX 402 y NEX DAB**
- Power Supply: **SPS 523**

## ADYACENT AMPLIFICATION

| MODEL                        | NEX 401    | NEX 403           | NEX 445    | NEX 545    |
|------------------------------|------------|-------------------|------------|------------|
| Reference                    | 39102...04 | 39305...12        | 39421...69 | 39521...69 |
| Channels                     | E02...E04  | E05...E12         | 21...69    | 21...69    |
| Max. output level DIN 45004K | dB $\mu$ V | 123               | 117        | 125        |
| Gain                         | dB         | 40                | 40         | 50         |
| Selectivity                  | dB         | $PV_N - PA_{N-1}$ | 15         | 14         |
|                              |            | $PA_N - PV_{N+1}$ | 15         | 14         |
|                              |            | $PV + 20$ MHz     | > 70       | > 70       |
| Packing dimensions           | mm         | 195 x 70 x 32     |            |            |
| Weight                       | Kg         | 0,45              | 0,45       | 0,45       |

## 1<sup>st</sup> IF SAT AMPLIFIER

| MODEL  | IFA 400    |                       |
|--|------------|-----------------------|
| Reference                                    | 39204      |                       |
| Frequency range 1 <sup>st</sup> IF SAT       | MHz        | 950-2150              |
| Max. output level DIN 45004B (-35dBc)        | dB $\mu$ V | 125                   |
| Gain 1 <sup>st</sup> IF SAT                  | dB         | 40 $\pm$ 48           |
| RF signal rejection 1 <sup>st</sup> IF input | dB         | 40 (5 $\div$ 862 MHz) |
| Return losses                                | dB         | 9                     |
| Packing dimensions                           | mm         | 195 x 70 x 32         |
| Weight                                       | Kg         | 0,35                  |

## FM AND DAB RADIO AMPLIFIER

| MODEL                         | NEX 402    | NEX DAB       |    |
|-------------------------------|------------|---------------|----|
| Reference                     | 39200      | 39201         |    |
| Channels                      | FM         | DAB           |    |
| Frecuencias cubiertas         | MHz        | 87 $\div$ 108 |    |
| Max. output level DIN B -35dB | dB $\mu$ V | 120           |    |
| Gain                          | dB         | 38            |    |
| Selectivity                   | dB         | @ - 14 MHz    | 35 |
|                               |            | @ + 14 MHz    | 30 |
| Packing dimensions            | mm         | 195 x 70 x 32 |    |
| Weight                        | Kg         | 0,45          |    |

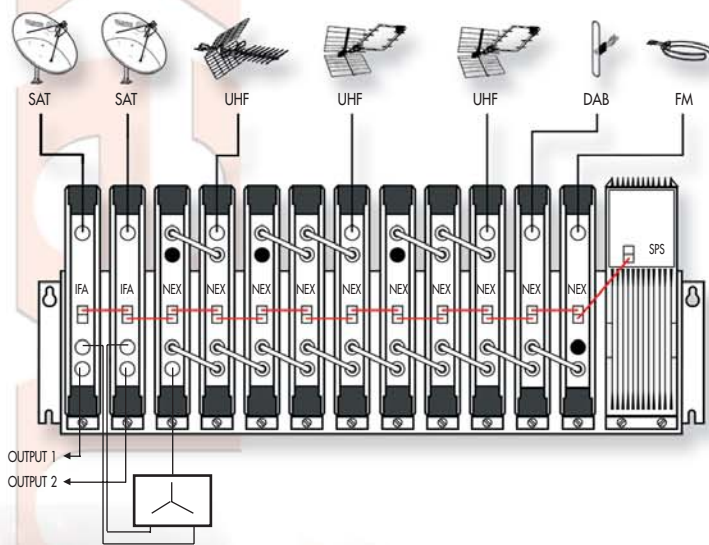
## POWER SUPPLY

| MODEL                     | SPS 523         |                |
|---------------------------|-----------------|----------------|
| Reference                 | 69023           |                |
| Supply voltage            | V <sub>ac</sub> | 198 $\div$ 264 |
| Output voltage            | V <sub>dc</sub> | 24 $\pm$ 5%    |
| Consumption (55 W output) | VA              | 70             |
| Maximum current output    | A               | 2,3            |
| Packing dimensions        | mm              | 205 x 70 x 80  |
| Weight                    | Kg              | 0,75           |

## ACCESSORIES

| REF.  | MODEL    | DESCRIPTION                                  |
|-------|----------|--|
| 83109 | BST N 12 | Frame 12 mod. + Power Supply                 |
| 83110 | BST N18  | Frame 18 mod. + Power Supply                 |
| 83111 | BSK N10  | Frame 10 mod. + Power Supply                 |
| 83605 | CFR N56V | Housing 12 mod. + Power Supply               |
| 83604 | CFR N218 | Housing 2 x 18 Nexum a 18 Nexum + 8 SCM 6000 |
| 83607 | CFR N118 | Housing 1 x 18 Nexum                         |
| 84011 | CX 75 F  | 75 $\Omega$ F Load                           |
| 84034 | PMD FFN  | F - F coaxial bridge                         |
| 84012 | CNR MF   | F male connector                             |
| 84013 | ADF HH   | Adapter                                      |
| 83706 | NEX KIT  | Module adaption Kit                          |
| 83707 | SPS KIT  | Power Supply adaption Kit                    |
| 83708 | CNX 300M | Connections for SCM 300 (module)             |
| 83709 | CNX 300F | Connections for SCM 300 (power supply)       |

## APPLICATION EXAMPLES



Ref: 9E053

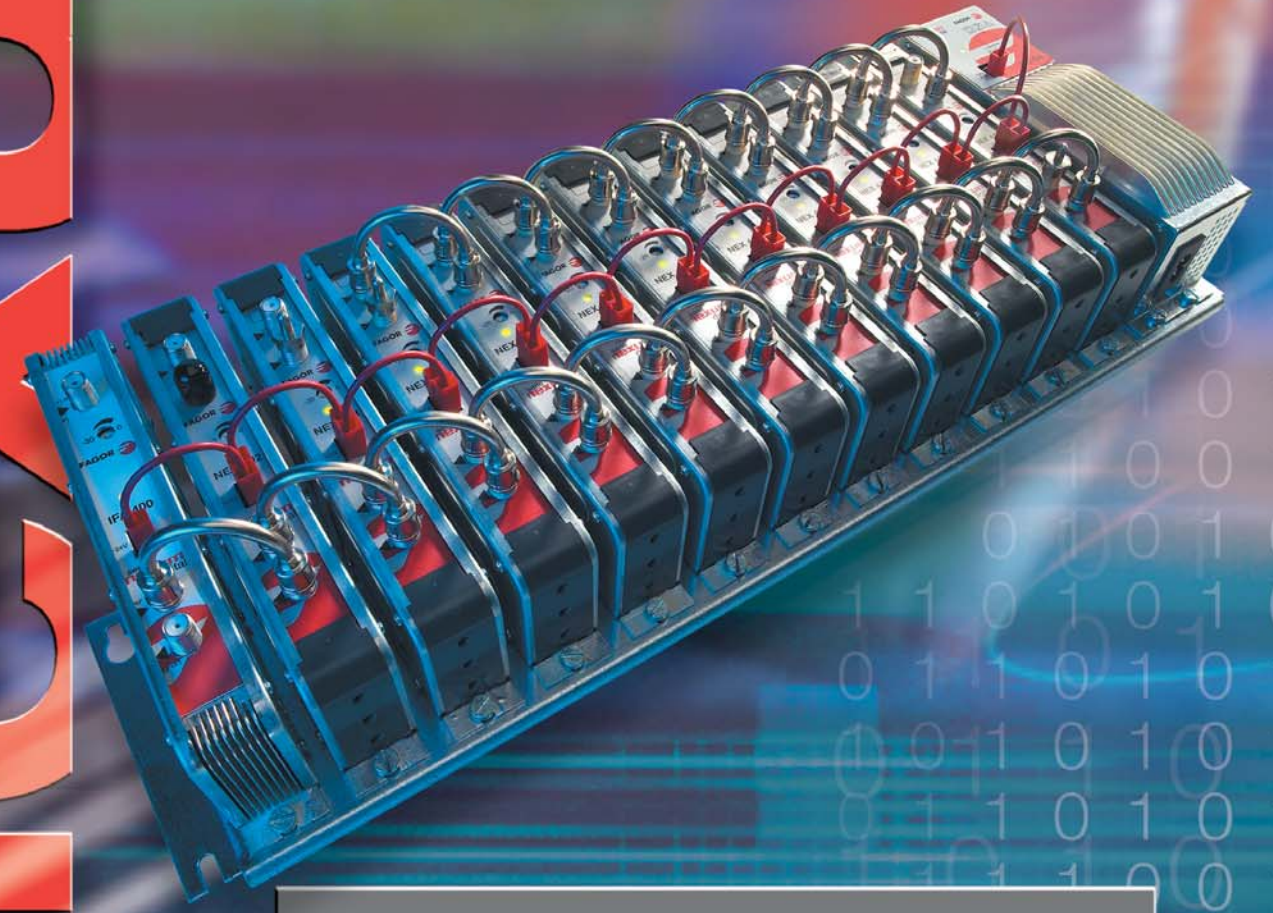
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**NEXUM** SERIES

**Winning  
rely**



NEW HEADEND SYSTEM  
DIGITAL **NEXUM** SERIES

**The perfect conjunction of the  
analogue past and the digital future**



# A superior solution for adjacent channels

NEW HEADEND SYSTEM

digital  
**nexum**  
series

## OVER AND ABOVE ANYTHING KNOWN



Channel amplifier:  
NEX 400/500



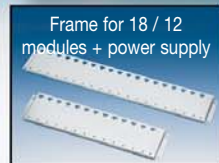
Power supply:  
SPS 523



Housing  
CFR N18



Bridge  
PMD FFN



Frame for 18 / 12 modules + power supply  
BST N18 / BST N12



Frame for 19" Rack  
BSK N10

Two ranges of amplifiers are available:

- The **NEX 400 series**, offering 40 dB gain and an output level of 117 dB $\mu$ V (UHF).
- **NEX 500 series** with 50 dB gain and an output level of 125 dB $\mu$ V (UHF).
- For satellite band coverage, the IFA 400 module is available with 45 dB gain and 125 dB $\mu$ V output level.
- High performance power source can supply up to 18 modules.

## WITH THE FEATURES OF THE UNDISPUTED LEADER

- All-in-one metal chassis (zamac), integrating the input/output connectors to give the unit great strength.
- High shielding degree.
- F connectors for excellent reliability and high screening factor.
- Modular design allowing the channel package to be configured according to installation needs.
- The use of filters with high "Q" factor (quality factor) inductive lines guarantees a high channel selectivity.
- Easy to set-up due to its system of splitting at input and combining at output.



## The nexus between analogue and digital signals

The Nexum series has been certified in Accredited European Laboratories with results that make it a guaranteed "A Class" appliance in **screening effectiveness** with **Internal Immunity values 10 times higher** than those required by the Electromagnetic Compatibility Regulation, both for adjacent channels and out-of-band services.



## AT THE HEAD-END OF THE FUTURE

**N**exum, Fagor's new Digital headend, has recently been created as a unique system enabling integrated processing of analogue or digital terrestrial and satellite TV, analogue FM radio and DAB digital radio signals in one single frame.

It is the perfect unit for medium- to large-sized community digital and analogue TV installations located in poor reception areas with big level differences between channels.

The Nexum system is ideal for working in environments with high electromagnetic contamination due to proliferation of services, either analogue or digital. Its high selectivity means its design is perfect for working in adjacent channels.



12 modules



18 modules

