

# ASB 100

**ACTIVE 4 - WAY SPLITTER**  
SAT IF, LNC voltage bypass

**B<sup>CE</sup><sub>LINE</sub>**

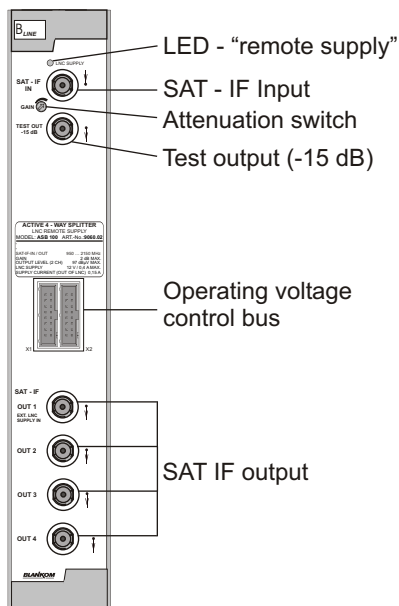


Fig. 01

## PRODUCT VARIANTS

ASB 100 9060.02 Active SAT IF splitter [950 ... 2150 MHz]

## GENERAL

The active SAT IF splitter ASB 100 is a module of the head end system B - Line, which is conceived as a complete system for middle sized distribution networks.

The module distributes a SAT - IF signal without level loss to the four outputs.

The LNC remote supply voltage can be supplied internal or external via a "bypass".

## FUNCTION DESCRIPTION

A "bypass" is arranged at the SAT - IF input of the module to switch the LNC supply voltage to the input socket. With help of the jumper, the internal 12 V supply voltage of the module, or an external voltage, supplied over the output socket "OUT 1" (for example 13 / 15 / 17 V from a passive distributor PSB 100), can be selected.

If the remote supply is active, a green LED next to the input socket is lit up.

The remote supply can be deactivated.

The electronic loss adjuster makes the adjustment of the optimal input level of the following processing units possible.

With a directional coupler the input signal is uncoupled onto a test socket (-15 dB).

The frequency response is compensated with a firm, internal equalizer.

A two stage amplifier adjusts the splitter attenuation of the output four-way splitter.

Additional information:

Block diagram

(Fig. 02)

Conversion of the LNC supply voltage

(Fig. 03)

## BLOCK DIAGRAM

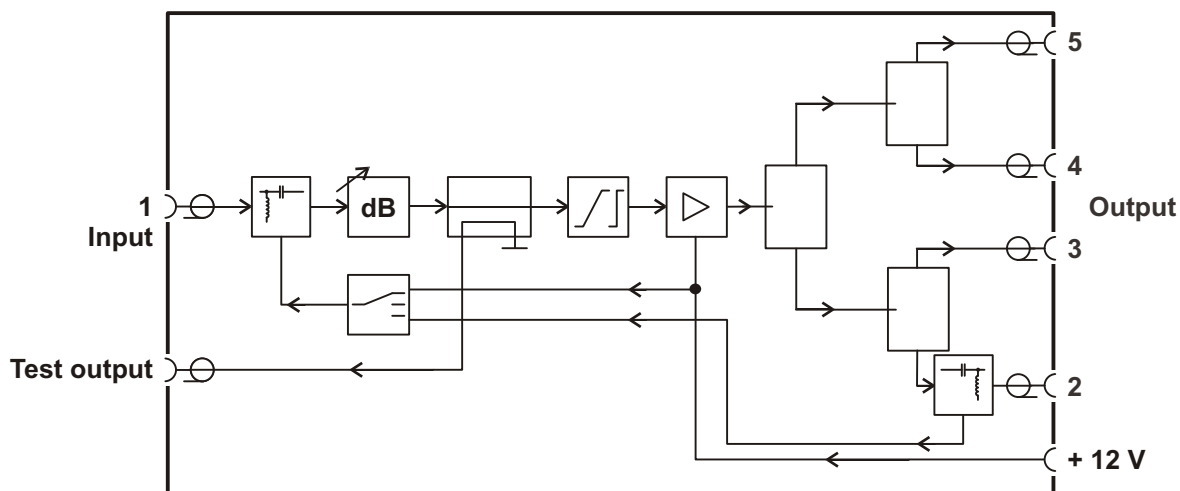


Fig. 02

## TECHNICAL DATA

### RF parameter

Frequency range	950 ... 2.150 MHz
Connector	F socket
Impedance	75 W
Amplification	0 dB
950 MHz	2 dB
2150 MHz	15 dB
Decoupling attenuation test point	
Max. output level	97 dBμV
at 2 - carrier - IMA = 35 dB	- 10 dB
Level adjustment range	

### Operating parameter

Voltage / current	12 V (±0,2 V) / 150 mA
Residual ripple of the supply voltage	10 mV <sub>ss</sub>

### Environmental conditions

Temperature range	-10 ... +55 °C
Relative humidity	80 % (not condensing)
Mounting method	vertical
Mounting location	squirting and dripping water protected

### Physical information

Dimensions (l x w x h)	
without 19" - adapter	50 x 276 x 148 mm
with 19" - adapter	50 x 301 x 148 mm
Weight	1.156 g

### Delivery contents

1 x BUS connector

## CONVERSION OF THE LNC REMOTE SUPPLY

### Reference:

To change the adjustments by the factory, the front cover has to be removed (pull to the front)!

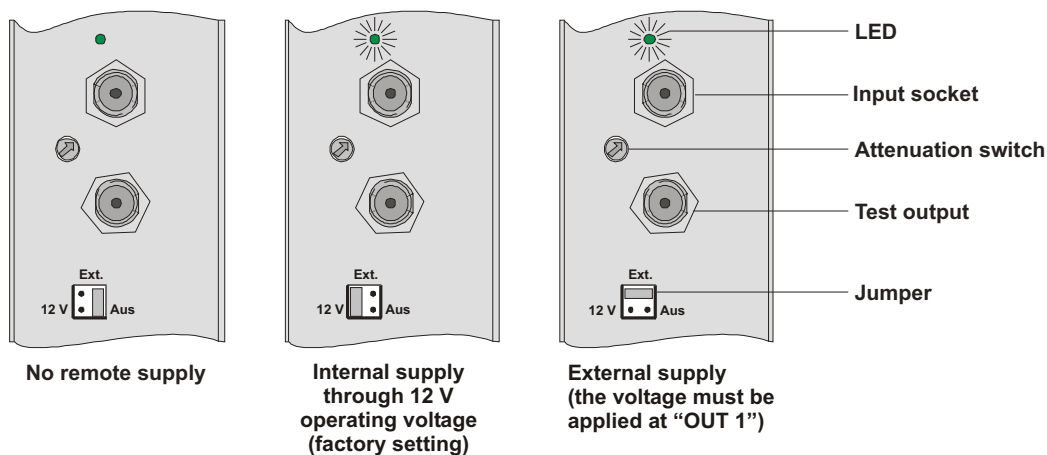


Fig. 03

## SECURITY AND OPERATING INSTRUCTIONS

**STOP** When assembling, starting-up and adjusting the modules, it is necessary to consider the system specific references in the instruction manual!

- ⚠ The modules may only be installed and started up by authorized technical personnel!
- ⚠ When assembling the modules into the receiving points, the adherence of the EMV regulations is to be secured!
- ⚠ The assembly and wiring have to be done without voltage!
- ⚠ All active modules may only be operated with the head end controller HCB 100 or bus extender BEB 100!
- ⚠ The main voltage for all power supply units is 230 V, 50 Hz.
- ⚠ With all work the defaults of the DIN EN 50083 have to be considered!  
Especially the safety relevant execution of the DIN EN 50083/1 is necessary!

