ACC 190

ACTIVE 4 - WAY COMBINER
Forward path

C LINE

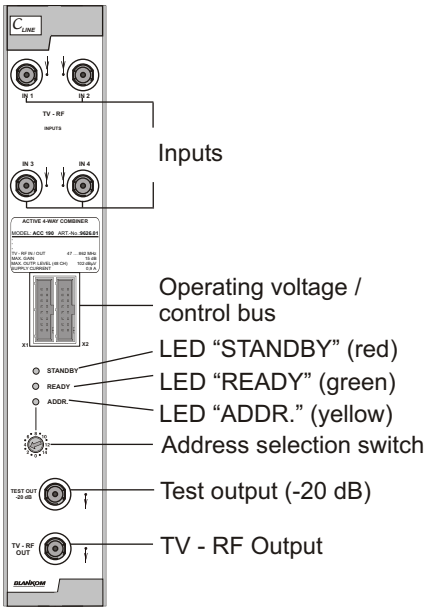


Fig. 01

PRODUCT VARIANTS

ACC 190	9626.01	Combiner amplifier	[47 … 862 MHz]

GENERAL

The combiner amplifier ACC 190 is a module of the headend system C - Line, which is conceived as a complete system for smaller distribution networks.
The module enables the combining and the amplification of up to 4 processing BK signal groups.
The module is programmed at the central control unit (HCB100)
The status of the module will be displayed via a colored LED:

Red	- STANDBY	Stand by
Green	- READY	Operating status
Yellow	- ADDR.	Remote control access

FUNCTION DESCRIPTION

The ACC190 is specially conceived for the headend system C - Line, for combining the RF outputs of signal blocks.
The input 4 way combiner is equipped with a low-loss transmitter at the input, which ensures the decoupling of the inputs.
The electronic level adjuster allows the adjustment of the module amplification via the headend controller HCB 100.
The output amplifier ensures the necessary headend output level.
The test output enables the non re-active examination of the output signals.

PROGRAMMING

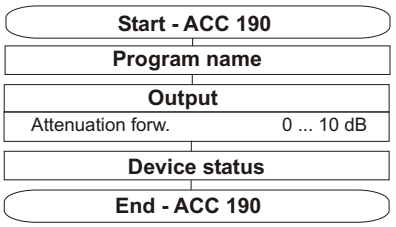


Fig. 02

Adjustment with the headend controller

Adjustment of the addresses at the bus extender BEB 100 and at the modules
Activation of the programming mode of the individual modules by selecting the line (BEB 100) and the module position (01 - 15) at the head end controller (HCB 100)
yellow LED is lit up til the beginning of the parameter adjustment
Adjustment of the ACC 190 parameter (see fig. 02) green LED is lit up
After the programming, the ACC 190 will be automatically switched into the operating status
yellow LED light up briefly / green LED is lit up

Adjustment with PC / Laptop

Condition for the remote programming is an “online - connection” after IP - standard and an ethernet connection at the PC / Laptop
Adjustment of the line / position addresses at the bus extender BEB 100 as well as at the modules
At the head end controller HCB 100 IP - address input (e.g. 192.168.001.001)
For “direct connection” between a PC and HCB 100 use a crossed patch cable (RJ 45)
For connection over a deviation use an uncrossed patch cable
HTML - browser start-up and put in IP - address as target address
If connected correctly the HTML - control surface at the PC will open up and a green LED (LINK) at the HCB 100 will be lit up
All adjustment of the modules are specified at the control surface

The manual instructions of the headend controller HCB 100 and the bus extender BEB 100 have to be considered!

TECHNICAL DATA

Forward range

Number of inputs	4
Frequency range	47 ... 862 MHz
Impedance	75
Connector	F socket
Max. amplification	15 dB
Decoupling of the inputs	15 dB
Tap loss at the test output	20 dB
Max. valid output level according to EN 50083-5, Pos. 3.2	117 dBµV
Max. operating output level (48 channels, CTBA 66 dB)	98 dBµV
Level adjusting range	-10 dB
Level adjusting grid	0,5 dB

Operating parameter

Voltage / current	12 V (0,2 V) / 800 mA
Ripple of the supply voltage	10 mV_{ss}

Environmental conditions

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

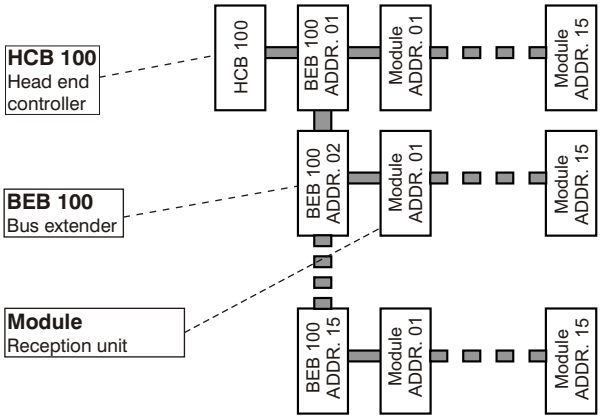
Additional information

Dimension (l x w x h)	
without 19” - adapter	50 x 276 x 148 mm
with 19” - adapter	50 x 301 x 148 mm
Weight	1300 g

Delivery contents

1 x BUS connector

HEADEND BUS STRUCTURE



The number of the possible module connections (00 ... 15) to a BEB 100 depends on the total power consumption of this line!

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 manual instruction!

⚠ 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 have to be considered!

⚠ 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!

Options and other TV standards availble upon request!!

Part.- N° 9626.01

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