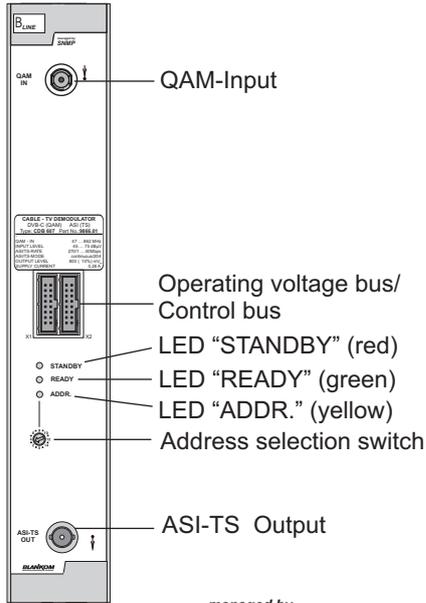


CDB 607

CABLE - TV DEMODULATOR
DVB-C (QAM) ASI (TS)



managed by
SNMP

Pic. 01

DEVICE VARIANT

CDB 607 9866.01 QAM ASI - Transport stream

Minimum software required for HCB 100 (Headend Controller):

9650.03: Version 2.34
9650.04/ 05: Version 3.18

GENERAL

The Cable-TV - Demodulator CDB 607 is a module of the B-LINE headend system which is conceived as a complete system for middle sized distribution networks.

The module CDB 607 converts QAM-signals into an ASI stream.

All modules are programmed at the central control unit (HCB 100) and are working independently afterwards.

The status of the module (channel) is displayed via colored LEDs:

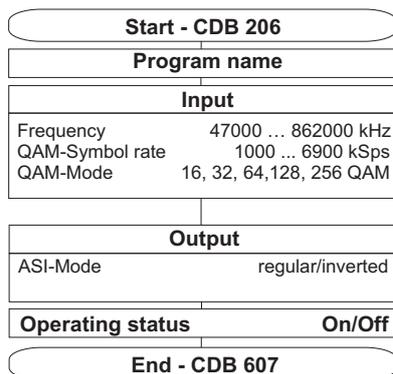
· Red	- permanent	Modul in Standby mode
	- flashing	Hardware error
· Green	- permanent	Module ok
	- flashing	Signal error
· Yellow	- permanent	Remote access
	- flashing	Data transfer

FUNCTION DESCRIPTION

The QAM tuner selects the wanted input frequency and delivers the internal IF-signal.

The following I/Q demodulation provides the MPEG-transport stream. The signal processing is according to the classified DVB - standards. The transport stream is fed to the QAM-modulator. The spectral scheme (ROLL OFF; Bandwidth) is realized by digital filters. The continuing transport stream is embedded subsequently in the ASI-stream.

PROGRAMMING



Pic. 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 each module by selecting the line (BEB 100) and the module position (01... 15) at the Headend Controller(HCB 100)

yellow LED will be lit up til the beginning of the parameter adjustment

Adjustment of the CDB 607 parameter (see Pic.02)

green LED is lit up

After the programming the CDB 607 will be automatically switched into the operating status

yellow LED lights up briefly / green LED is lit up

Adjustment with the 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 Headend 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 blue 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

QAM-Input

Frequency range	47...862 MHz
Tuning grid	62.5 kHz
AGC-Level range	45 ... 75 dB μ V
Connector	F socket
Impedance	75

QAM-Demodulator

Symbol rate	1... 6.9 MSps
QAM-Constellation	16; 32; 64; 128; 256
Roll off	15 %

ASI-Output

ASI-Data rate	270 Mbps
ASI-Polarity	regular / inverted
ASI-Transmission format	continuous
TS-Data rate	according symbol rate and codierung
TS-Transmission format	204
Signal processing	EN 50083-9
Output level	800 mV _{pp} (+/- 10 %)
Return loss	> 17 dB
Connector	BNC socket
Impedance	75

Operating parameter

Voltage/ current	12 V (\pm 0.2 V) / 280 mA
Residual ripple of the supply voltage	10 mV _{pp}

Environmental conditions

Temperature range	- 10 ... + 55 °C
Temperature range for data keeping	5 ... + 45 °C
Relative humidity	80 % (not condens.)
Mounting method	vertical
Mounting location	squirting and dripping water protected

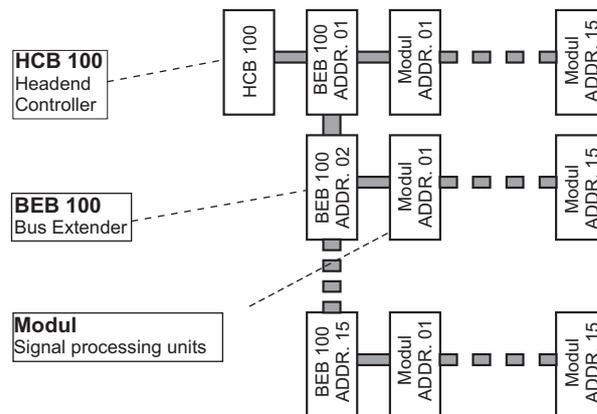
Physical information

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	1,500 g

Delivery content

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!

Pic. 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 EMC regulations is to be secured!
- ⚠** The assembly and wiring have to be done without voltage!
- ⚠** All active modules may only be operated with the Headend Controller HCB 100 or Bus Extender BEB 100!
- ⚠** The supply voltage and operating voltage for all modules operated with direct current has to be in accordance to the technical specifications of the respective module (see respective device manual)!
- 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 available upon request!

Changes due to technical progress possible.

Part n°: 9866.01

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