BLANKOM®

Operating instructions

8-port switch

LANIOS
Part N°: 5160.01

...setting Signals

Contents

1. Safety 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. There are only permitted the mounting styles indicated in the quick start guide, which is included each module.

⚠ When assembling the modules into the receiving points, the adherence of the EMC regulations is to be ensured.

⚠ The assembly and wiring have to be done without voltage. For installation, only the supplied accessories (DIN rail clip with screws and 19" accessories) may only be used.

⚠ All active modules may only be operated with the power supply HELIOS. To supply the module only the attached accessory cables are used.

⚠ The mains voltage and the operating voltage of the modules working by DC have to be in complience to the operating parameters described in the technical data.

⚠ With all work the defaults of the DIN EN 50083 have to be considered! Especially the safety relevant execution of the DIN EN 60728-11[1] is necessary.

⚠ The unit should be mounted only vertically. The ventilation slots as well as the circulation perforation of the modules must be kept absolutely free.

⚠ If installed in mounting cabinets a adequate heat circulation must be guaranteed. The mounting in closed cabinets with no air exchange is **not allowed**.

⚠ For **DIN rail mounting** is important to note that between the heat sink and a neighboring building, a distance of 2 cm is required. If the modules mounted on top of each, so to observe a distance of 20 cm from the bottom edge of the top module to top edge of the lower module

⚠ For **19" mounting** all devices in the rack must be fitted with 19" Edge Guide. The sole panel mounting is not enough! Furthermore, the operation of a fully occupied rack is only allowed with an underlying 1-U fan box (at least 3 fans, 176 mm deep).
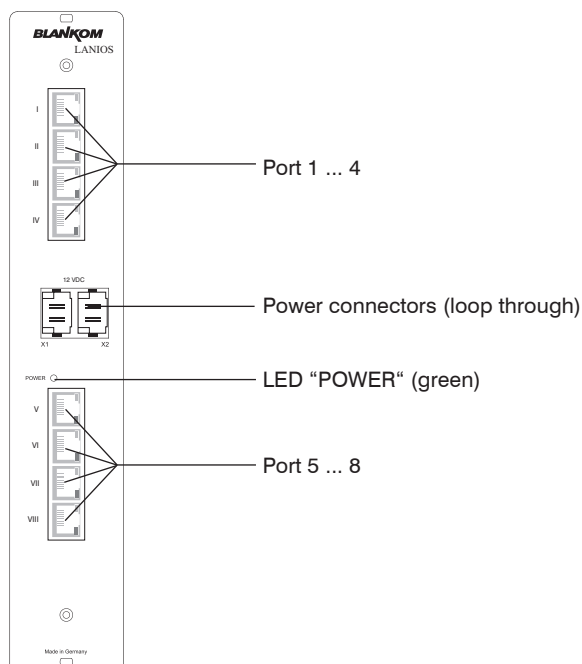
2. Device variants

LANIOS   5160.01   8-port switch

3. General

The Smart Business Line (SBL) is a modern head end system, that is distinguished by its modular and compact design. A userfriendly operating concept facilitates setup, configuration and maintenance of the system.
The module LANIOS is the 8-port Ethernet switch created for the SBL system.

4. Front view

Port 1 ... 4

Power connectors (loop through)

LED "POWER" (green)

Port 5 ... 8

5. Functional description

The LANIOS module is a 8-port 10/ 100 Base-T Ethernet switch, which was created for the SBL system. It fits seamlessly into the SBL case, control and quality concept. With the switch up to 7 SBL modules can be controlled via a PC/ laptop. If more ports are needed, cascading is possible.
Auto negotiation and auto MDI/ MDIX crossover are integrated, IGMP snooping is supported.

6. Meaning of the LED's at the 10/ 100 Mbit ports

Designation/ colour	Status	Meaning of display
Connect-LED/ yellow	permanently on	network cable is connected
	off	no cable connection
Data-LED/ green	flashing	data exchange
	off	no data exchange

7. Technical data

Network ports
Link attributes   8x Ethernet, 10/ 100 Base-T according IEEE 802.3, IEEE 802.3u, IEEE 802.3x
Connectors   8x RJ 45

Operating parameters
Voltage range   5 ... 15 V DC
Max. current consumption   150 mA at 12 V DC
Power consumption   about 1.5 W

Environmental conditions
Temperature range   -10 … +55 °C
Relative humidity   ≤ 80 % (non condensing)
Method of mounting   vertical
Location of mounting   splash-proof and drip-proof

Miscellaneous
Dimensions (l x w x h)   46 x 262 x 167 mm
Weight   850 g

Delivery contents   1x power cord
1x DIN rail clip
1x mounting accessories

8. Bibliography

[1] EN 60728-11: Cable networks for television signals, sound signals and interactive services Part 11: Safety (IEC 60728-11:2005); German version EN 60728-11:2005

[2] EN 50083-2 : Cabled distribution systems for television and sound signals. Electromagnetic compatibility for equipment; EN 50083-2:2001

9. Document History

Version	Date	Modification	Author
1.00	14.07.2011	basic document	Häußer

Options available upon request! Subjects to changes due to technical progress.

C E Declaration of Conformity

The Manufacturer

BLANKOM Antennentechnik GmbH · Hermann-Petersilge-Str. 1 · 07422 Bad Blankenburg · Germany

herewith declares the conformity of the product

Product name:	8-port switch
Type:	LANIOS
Product number:	5160.01

according to the following regulations

EN 50083-2
EN 60728-11 (as far as relevant)

and additional device-specific regulations, enclosed above, which this product is subjected to.

Date: 14.07.2011

Signature:

Piero Kirchner
(Managing Director)