ProPlex GBS 28-Port Gigabit Switch with LCD Control Module User Manual

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User Manual

Contents

LIMITED WARRANTY

Proflex GBS Devices are warranted by TMB against defective materials or workmanship for a period of two (2) years from the date of original sale by TMB.

TMB's warranty shall be restricted to the repair or replacement of any part that proves to be defective and for which a claim is submitted to TMB before the expiration of the applicable warranty periods.

This Limited Warranty is void if the defects of the Product are the result of:

- Opening the casing, repair, or adjustment by anyone other than TMB or persons specifically authorized by TMB
- Accident, physical abuse, mishandling, or misapplication of the product.
- Damage due to lightning, earthquake, flood, terrorism, war, or act of God.

TMB will not assume responsibility for any labor expended, or materials used, to replace and/or repair the Product without TMB's prior written authorization. Any repair of the Product in the field, and any associated labor charges, must be authorized in advance by TMB. Freight costs on warranty repairs are split 50/50: Customer pays to ship the defective product to TMB; TMB pays to ship repaired product, ground freight, back to Customer.

This warranty does not cover consequential damages or costs of any kind.

A Return Merchandise Authorization (RMA) Number must be obtained from TMB prior to the return of any defective merchandise for warranty or non-warranty repair. For all repairs please contact TMB Tech Support Repair using the contact information below or email **TechSupportRepairNA@tmb.com**.

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PRODUCT OVERVIEW

Proflex GBS Gigabit Ethernet switches are designed for portable entertainment production and are part of the Proflex Data Distribution range of products for complete touring show data management. The rugged ProPlex GBS 28-Port is suitable for high-volume, multicast, video, audio, or lighting data. Features include:

- Reconfigurable! Any combination of data port modules can be moved between the front and rear panels for practical gig-specific wiring.
- Built for extreme conditions. Shock-mounted circuitry. Advanced thermal management.
- Fiber option via one or two heavy-duty OpticalCON QUAD connectors. optical DUO is also available by special order.
- Gigabit Ethernet: 26 ports with tour-grade EtherCON connectors and 2 heavy-duty OpticalCON QUAD connectors.
- Onboard LCD interface simplifies management with a variety of pre-set VLAN configurations and managed switch options.
- Compatible with a wide range of entertainment-specific protocols, including sACN, ArtNet, CobraNet, Dante, ETCNet, Ethersound, MA-Net, and more!
- Variable power input, 100-240 VAC, 50-60 Hz with PowerCON connector.
- Proflex "Blue Box" RackMount, rugged tour-ready enclosure.

DIMENSIONS

[19,20]
487,6

[3,50]
88,8

[18,16]
461,2

*Back
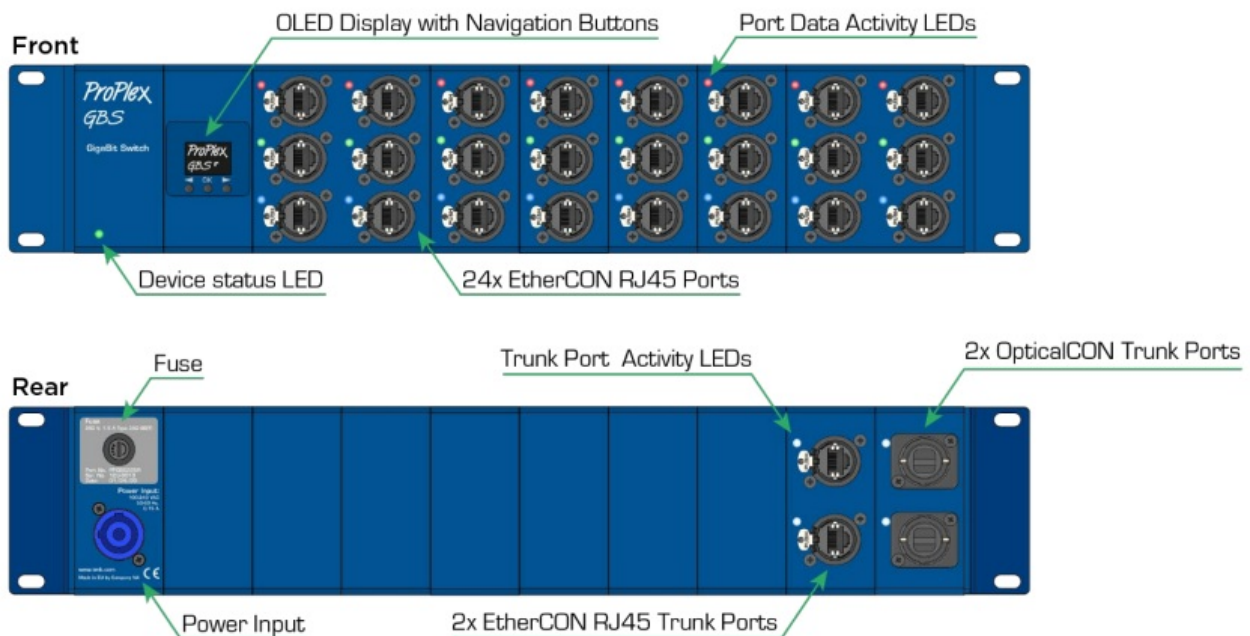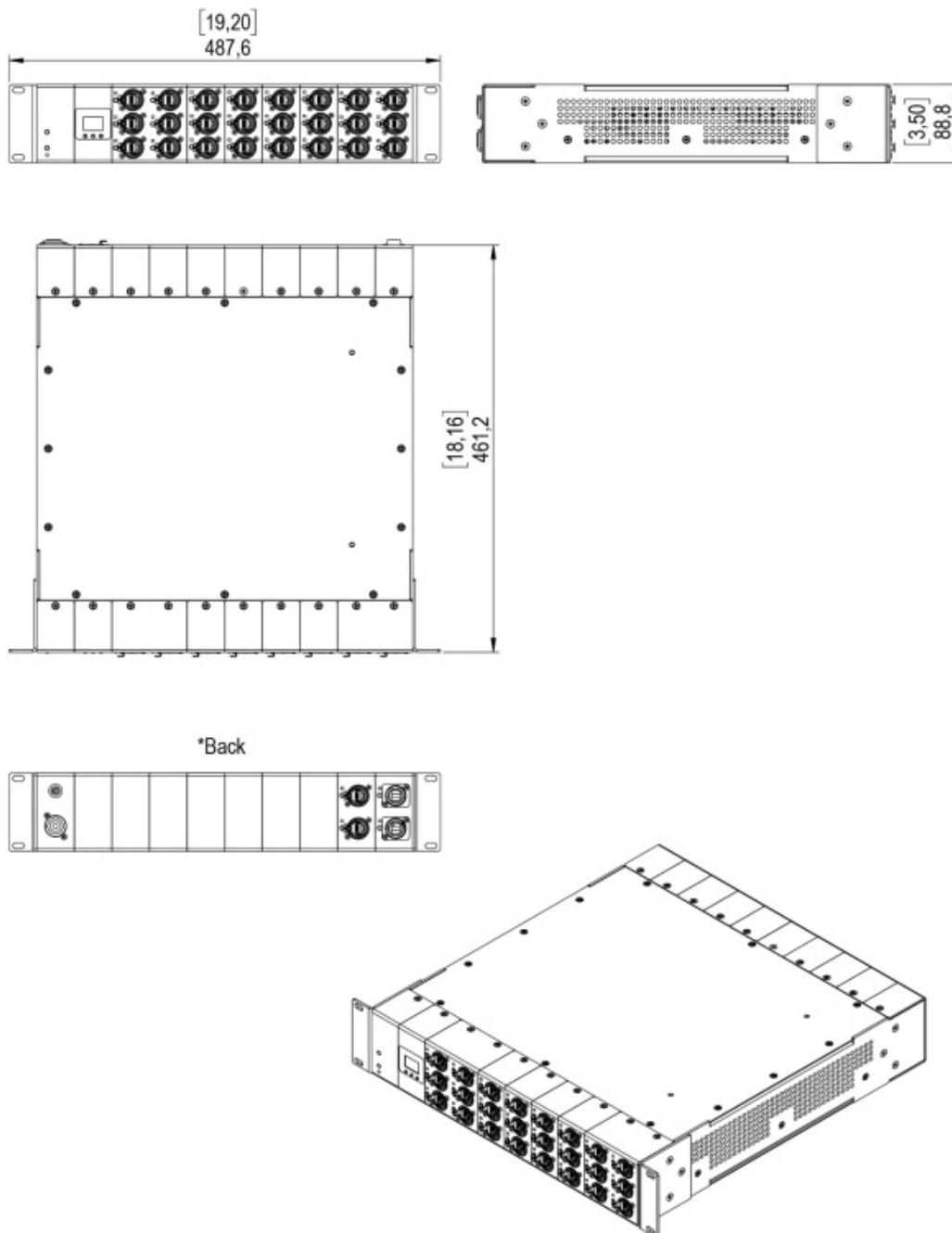
SETUP

UNPACKING INSTRUCTIONS

Upon receipt of the unit, carefully unpack the carton and check the contents to ensure that all parts are present and in good condition. Notify the shipper immediately and retain the packing material for inspection if any parts appear to be damaged from shipping or if the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a unit must be returned to the factory, it is important that it be returned in the original factory box and packing.

POWER REQUIREMENTS

Before powering the unit, make sure the line voltage is within the range of accepted voltages. This unit accommodates 100-240VAC, 50/60Hz. All units must be powered directly from a switched circuit and cannot be operated with a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0-100% switch.

SAFETY INSTRUCTIONS

⚠ Please read these instructions carefully. This user guide contains important information about the installation, usage, and maintenance of this product.

- Keep this User Guide for future reference. If the unit is sold to another user, make sure they also receive this instruction booklet.
- Ensure the unit is connected to the proper voltage, and that line voltage is not higher than that stated on the device.
- Make sure there are no flammable materials close to the unit while operating.
- Always disconnect from the power source before servicing or fuse replacement. Always use the fuse specified in this manual.
- The maximum ambient temperature (Ta) is 40°C (104°F). Do not operate the unit at temperatures above this rating.
- In the event of a serious operating problem, stop using the unit immediately. Repairs must be carried out by trained, authorized personnel. Contact the nearest authorized technical assistance center. Only OEM spare parts should be used.
- Do not power the device with a dimmer circuit.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.

Caution! There are no user-serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your distributor.

FUSE REPLACEMENT

The GBS 28-port uses a 1.5A, 250V type 3AG SB(T) fuse. To replace the fuse:

1. With a screwdriver, turn the fuse cap counter-clockwise to remove the fuse cap with fuse.
2. Replace fuse attached to fuse cap.
3. Reinsert fuse cap with a new fuse and tighten clockwise.

OPERATION

CONTROL PANEL NAVIGATION

The LCD Control Panel has built-in navigation buttons and an OLED screen to show the current mode selection and display other menu functions. Easy mode selections are available through the LCD Control Panel, giving a variety of VLAN configurations alongside common managed switch settings enabling RSTP and IGMP. Various menus are
navigated with the **LEFT** and **RIGHT** button and are accessed by the **OK** button.

BOOT SCREEN – The device will show a Boot Screen when powering on the first time. The boot process can last for up to one minute.
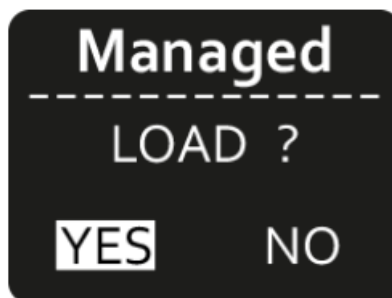
OLED SCREEN – The OLED screen will always show the current operating mode and description.

LEFT and RIGHT – Navigates and scrolls through the various internal menu structure. Current highlighted menu options are indicated on-screen and are accompanied by port LED activity.

**OK** – Allows mode selection and loading once highlighted

MENU MAP

Unmanaged	All settings are off, no VLAN groups
Managed	RSTP ON IGMP ON QoS ON

DHCP + Managed	RSTP ON IGMP ON QoS ON DHCP ON
2 groups/VLANs + Managed	RSTP ON IGMP ON QoS ON 2 group VLAN
3A groups/VLANs + Managed	RSTP ON IGMP ON QoS ON 3 group VLAN (A Configuration)
3B groups/VLANs + Managed	RSTP ON IGMP ON QoS ON 3 group VLAN (B Configuration)
4 groups/VLANs + Managed	RSTP ON IGMP ON QoS ON 4 group VLAN
6 groups/VLANs + Managed	RSTP ON IGMP ON QoS ON 6 group VLAN
Custom/Unknown*	Other configurations different than default modes

*Custom configurations are available through the GUI management interface. Contact **techsupport@tmb.com** for more information

LED INDICATORS
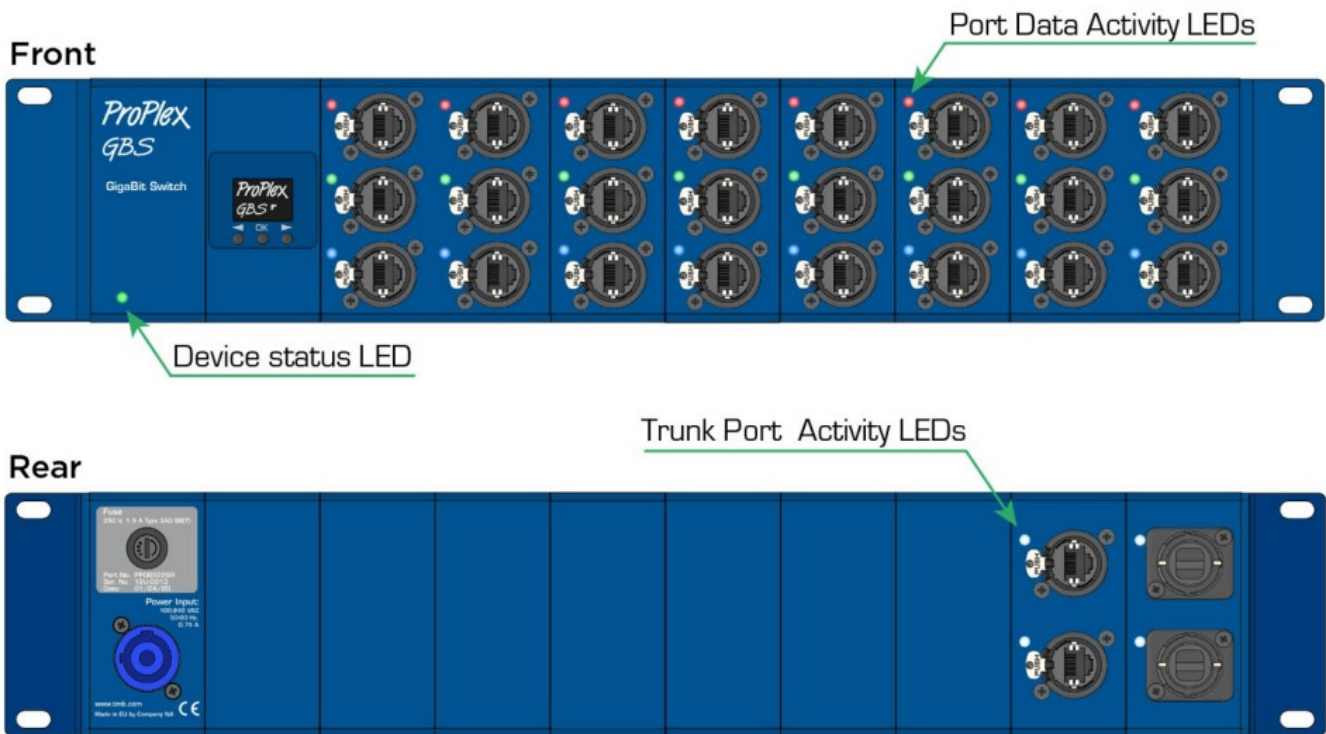
Device Status LED
On bootup, the Device Status LED will glow yellow. When the boot is complete and the device is ready for operation, the Device Status LED will be green.

Trunk Port Activity LEDs
Trunk ports are always set as trunks in every mode selection. When connected to a network, Trunk Port Activity LEDs will show connection speed.

- Blinking Green: 1 Gbps
- Blinking Orange: 100 Mbps

Port Data Activity LEDs
On bootup, the Port Data Activity LEDs will glow white in a wave pattern. When the boot is complete, Port Data Activity LEDs will change color depending on the current mode selection.

When mode selection is initiated, each VLAN grouping will change it's Port Data Activity LED to the representative VLAN color. The groups will also identify visually by white flashing (1-6 times depending on VLAN number) which will cascade through each group consecutively.

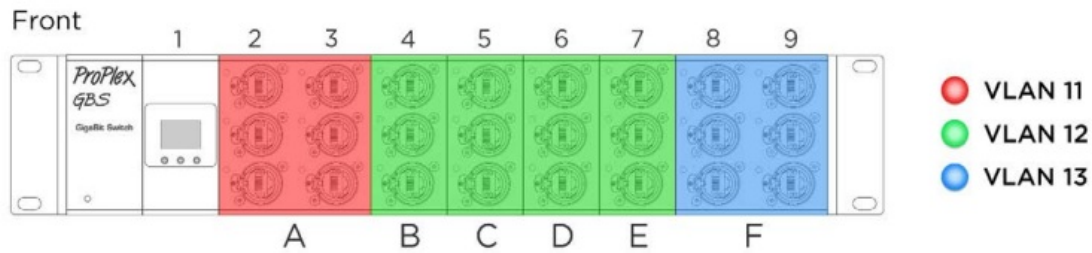|		
🔴	VLAN 11	(Red)
🟢	VLAN 12	(Green)
🔵	VLAN 13	(Blue)
🟡	VLAN 14	(Yellow)
🟣	VLAN 15	(Magenta)
🔵	VLAN 16	(Turquoise)

Unmanaged, Managed, and Managed + DHCP modes are represented by White LEDs.
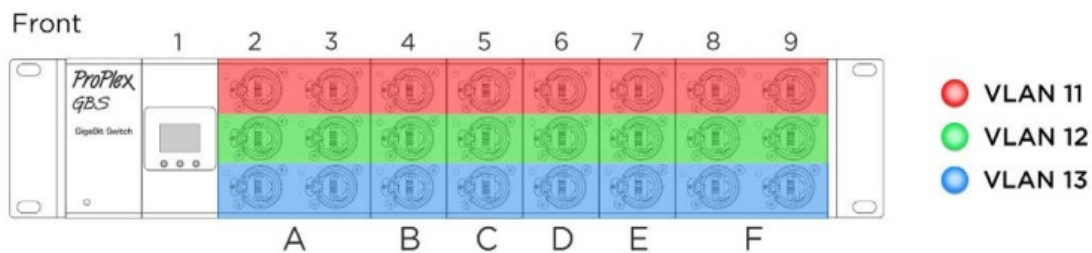
DEFAULT VLAN GROUP CONFIGURATION

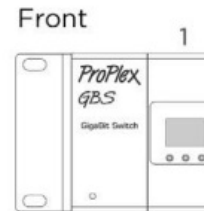## 2 VLAN Groups
(Default panel configuration)
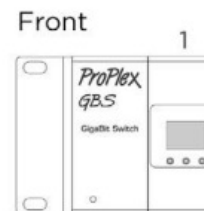

3 VLAN Groups (A)
(Default panel configuration)

3 VLAN Groups (B)
(Default panel configuration)

4 VLAN Grou
(Default panel co

6 VLAN Grou
(Default panel co

TECHNICAL SPECIFICATION

Model	Proflex GBS 28-Port Dual Fibre w/ LCD
Part Number	PPGBS226LR
Ethernet Ports	26 Neutrik EtherCon RJ45 (24 LAN, 2 Trunk)
Fibre Ports	2 Neutrik OpticalCon QUAD (2 Trunk)
Ethernet Type	Gigabit

Switching Capacity	56.0 Gigabits per second (Gbps)
Packet Buffer Memory	12 Mb
Forwarding Rate	41.66 Million Packets per Second (mpps) (64-byte packets)
Power Input	100-240 VAC, 50-60 Hz
Power Consumption	30 W
Power Connector	Neutrik PowerCon
Cooling	Convection
Operating Temperature	+32^2 to +104° F [0^2 to +40^2 C]
Unit Dimensions (WxHxD)	19.2 x 3.5 x 1816 in [487.6 x 88.8 x 461.2 mm]
Shipping Dimensions (WxHxD)	23x6x21.5in [584.2 x 152.4 x 546.1 mm]
Unit Weight	36.1 lb [16.37 kg]
Shipping Weight	38.1 lb [17.28 kg]

RETURN PROCEDURE

Please send returned merchandise prepaid and in the original packing. Freight call tags will not be issued for shipping the product to TMB, but TMB will pay the freight for return to the customer. Clearly label package with a Return Merchandise Authorization Number (RMA #). Products returned without an RMA # will delay service. Please contact TMB and request an RMA # prior to shipping the unit. Be prepared to provide the model number, serial number, and a brief description of the cause for the return. Be sure to properly pack the unit; any shipping damage resulting from inadequate packaging is the customer's responsibility. TMB reserves the right to use its own discretion to repair or replace the product(s). Proper UPS packing or double-boxing will better ensure product integrity when shipped.

Note: If you are given an RMA #, please include the following information on a piece of paper inside the box:

1. Your name

2. Your address

3. Your phone number

4. The RMA #

5. A brief description of the symptoms

CONTACT INFORMATION

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Servicing the global market from offices in Los Angeles, London, New York, Toronto, and Beijing.

Proflex GBS 28-Port LCD User Manual ProPlex-GBS-28-Port-LCD-Manual-v1.0 Effective 26 February 2021

Documents / Resources

ProPlex GBS 28-Port Gigabit Switch with LCD Control Module [pdf] User Manual
GBS 28-Port Gigabit Switch with LCD Control Module, GBS 28-Port Gigabit Switch

References

- **TMB**