DigiSwitch 20 basic information

useful information for user manual

DEVICE DESCRIPTION

DigiSwitch 20 makes today's complex show networking easier and accessible for everyone. These simple to operate and powerful Gigabit Ethernet switches distribute up to four discrete networks – lighting, audio, server, console or communication contents – quickly, effortlessly, and simultaneously. Users untrained in the complexities of managed networking can easily isolate networks and access and change VLAN assignments with a single button press. With 16 ports, assignable in four four-port groups, DigiSwitch 20 is a revolutionary new addition to the Companys NA data distribution range of multiple format data management systems, all designed and built to withstand "Life on the road."

- Simultaneously distribute up to four discrete networks – lighting, audio, content, server, console, or communications – with a few button presses
- 16 ports assignable in four, four-port groups
- Add a second link connection for automatic redundancy and twice the speed
- Cost savings! Two Digiswitch 20s do the work of up to eight standard Gigabit switches.

FEATURES

DigiSwitch utilizes IEEE 802.1Q to transport VLANS (groups) across network so existing hardware can be used to connect do EZ-LAN.

Note - group numbers doesn't match VLAN IDs directly - group 1 corresponds to VLAN ID 11, 2 correspond to VLAN ID 12, etc.
In general: VLAN ID matches group nr. +10.

OVERVIEW

Each Ethernet port has status LEDs that indicate data activity (IN or OUT).
If LED is blinking that means Ethernet port is receiving signal.
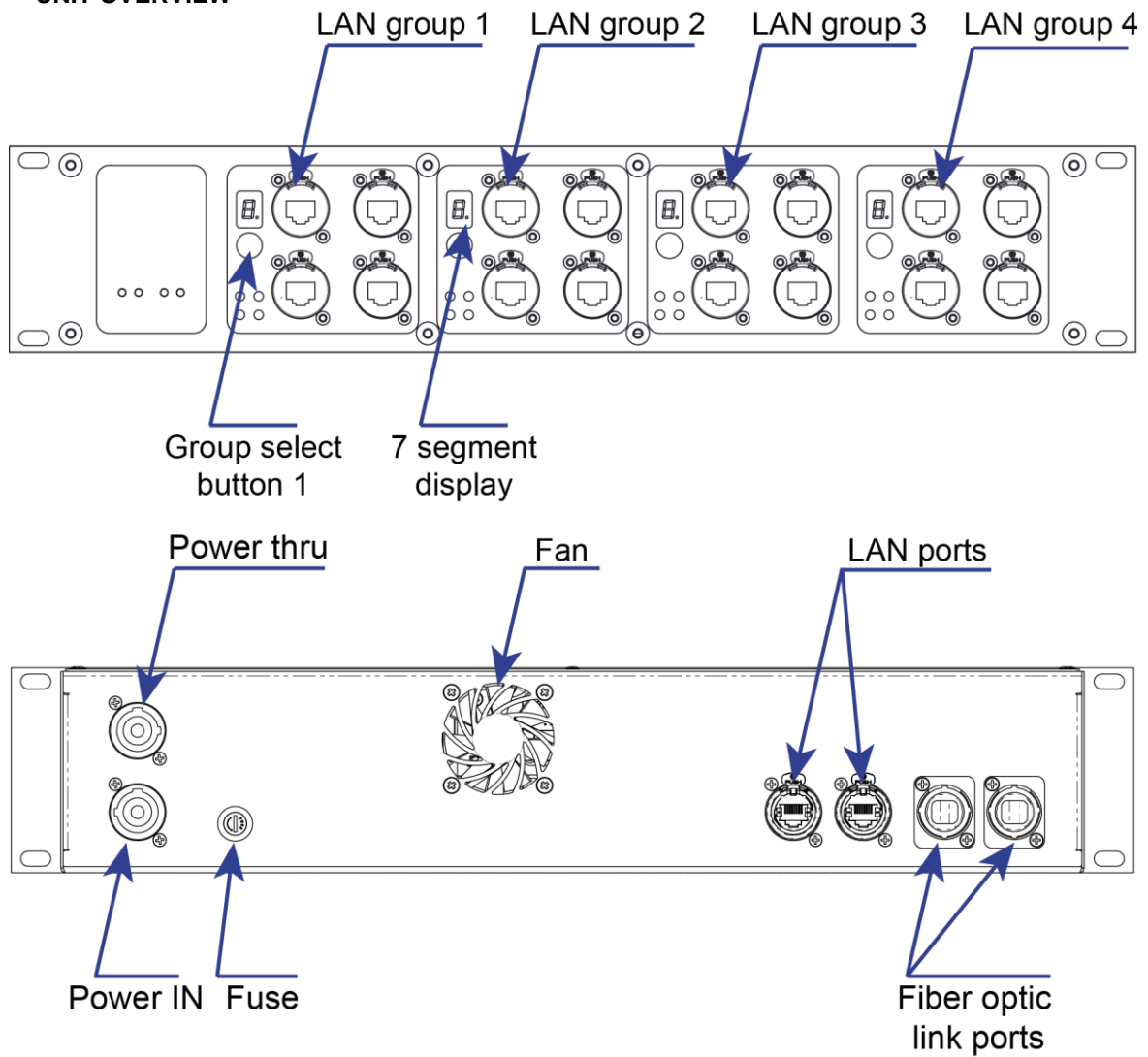If LED isn't blinking that means Ethernet port is not receiving signal.
All DMX ports have separate optical and galvanic isolation.
Ethernet connectors are Neutrik etherCON RJ45. Ethernet is 10/100/1000 Base-TX with auto-negotiation.
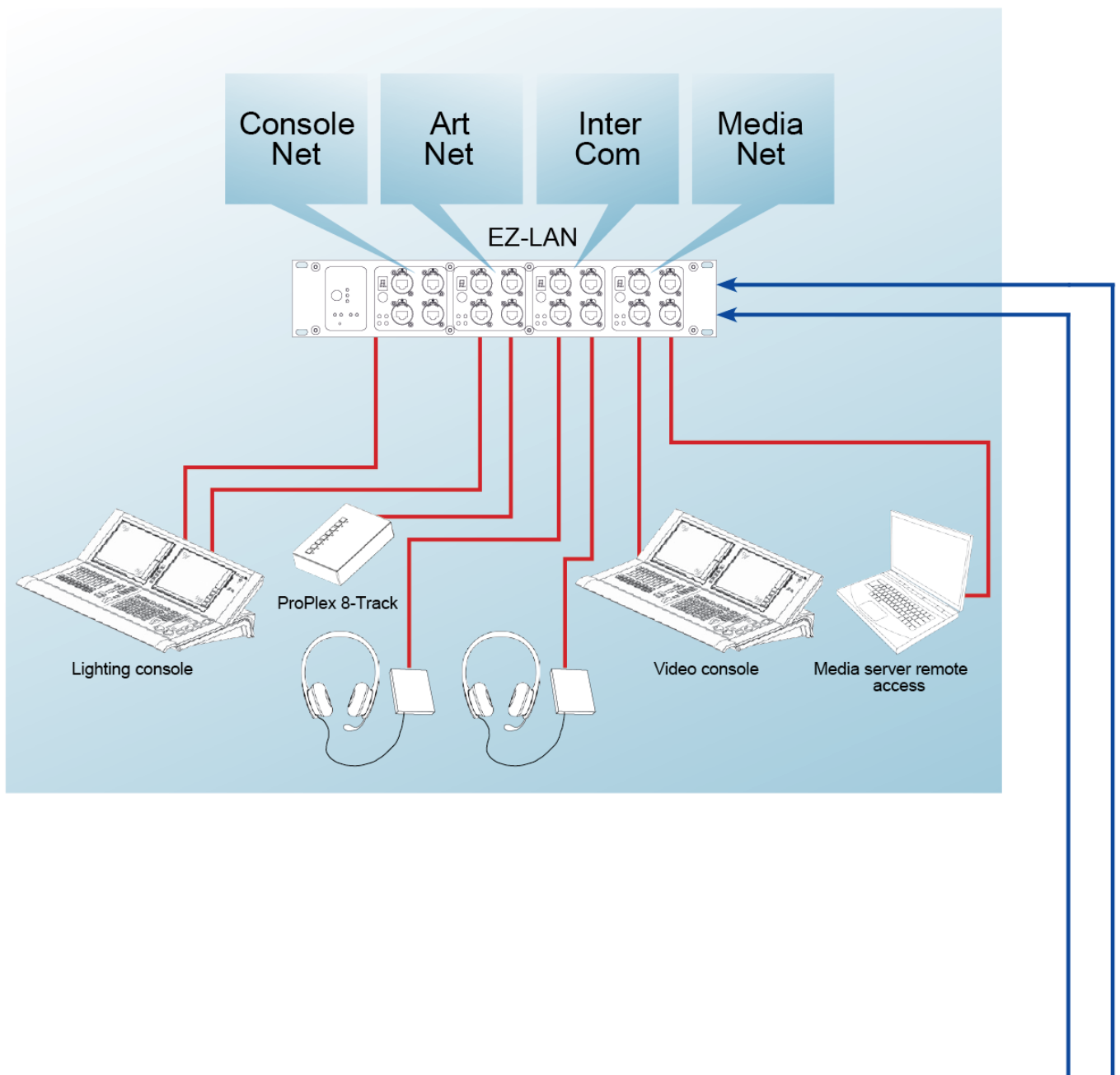
Product review

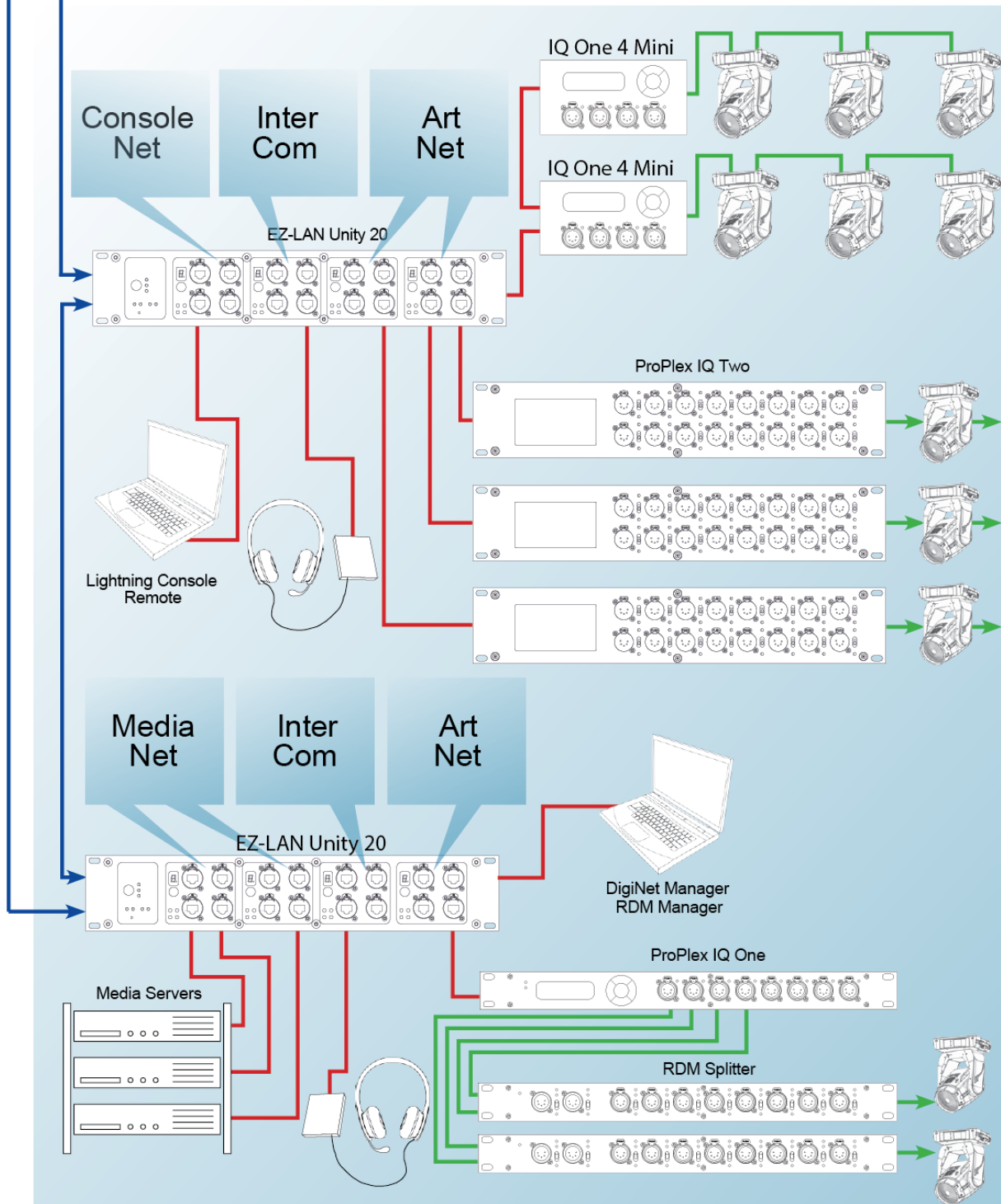LAN group 1   LAN group 2   LAN group 3   LAN group 4

Group select
button 1

7 segment
display

Power thru   Fan   LAN ports

Power IN   Fuse   Fiber optic
                                            link ports

FOH

Console Net

Art Net

Inter Com

Media Net

EZ-LAN

Lighting console

ProPlex 8-Track

Video console

Media server remote access

Stage

Console Net

Inter Com

Art Net

IQ One 4 Mini

IQ One 4 Mini

EZ-LAN Unity 20

ProPlex IQ Two

Lightning Console Remote

Media Net

Inter Com

Art Net

EZ-LAN Unity 20

DigiNet Manager
RDM Manager

ProPlex IQ One

Media Servers
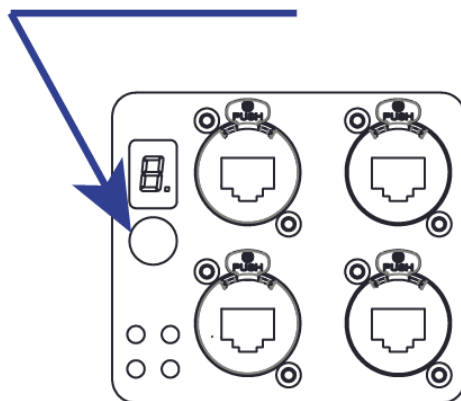
RDM Splitter

CONFIGURATION

CONFIGURATION

Group "." means that this group is linked to "Trunk" ports - those are used to link more Digiswitch units in the same network. Rear Fiber and Ethernet ports are always connected to "Trunk" group. DigiSwitch utilizes IEEE 802.1Q to transport VLANS (groups) across network so existing hardware can be used to connect do Ez-LAN. Note - group numbers doesn't match VLAN IDs directly - group 1 corresponds to VLAN ID 11, 2 corresponds to VLAN ID 12 ect. In general: VLAN ID matches group nr +10.

GROUP CHANGING

To change port groups, you need to decide in which group (1, 2, 3 or 4) you want to change the port group.
Then you need to press the button located next to each groups 4 RJ45 ports (group changing button, see the picture).

To change port group, hold button for few seconds to unlock group, then press of the button will cycle trough all available groups (visible on the seven segment display). After required group is selected, wait for a few seconds for this new group to be saved and for switch to reconfigure ports.
Only ports on the same group are linked together thereforethey can exchange data while other ports on other groups are not connected.
You can have the same group appear multiple times in network, even in the same unit - you can even set all ports to the same group.