

# 8-Port Switch Fiber Optic

## RW11 Mobile Server Mission Module



   
WATER SAND

   
FROST HEAT

   
SHOCK DROP

The „8-port fiber optic switch“ has been developed primarily for use in the patented „Mobile Server Mission System“ together with the laptop lizard RW11, but can also be easily used as a stand-alone or 19 „version. The switch is based on the Cisco Small Business 300 Series and supports up to eight Fiber Optic and one RJ45 port as well as Layer 2 and Layer 3 switching. The fiber optic switch can be configured very versatile via the SFP modules. It enables full duplex, half duplex, symmetric and asymmetric transmission modes and allows VLAN, DHCP, port grouping and more.

The 8-speed Gigabit Switch is simply coupled via retaining bolts to the RW11 or the RJ45 Switch and / or Power Module vibration proof. The design according to MIL-STD810G, MIL-STD461F and the certification according to Tempest Zone 1 (also in the system) hardly allow limits of use.

### Technical Specification

|                   |                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type</b>       | Managed 8 Port Layer 2+ Switch (Layer 2-3)                                                                                                                                                               |
| <b>Network</b>    | Ethernet, Fast Ethernet, Gigabit Ethernet                                                                                                                                                                |
| <b>Management</b> | PVU6550, SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, HTTP, HTTPS, SSH, CLI, access serial or web                                                                                    |
| <b>Memory</b>     | 16 MB Flash, 128 MB CPU memory, data buffer 8 MB                                                                                                                                                         |
| <b>Interfaces</b> | <ul style="list-style-type: none"><li>• 8x LC LWL + 1x RJ45 (10/100/1000 Mbit/s Ethernet)</li><li>• DC-In 16-34V DC, max 5.4W (without notebook)</li><li>• serial interface RS232 (Management)</li></ul> |
| <b>SFP Module</b> | LWL interfaces by SFP module <ul style="list-style-type: none"><li>• variable configuration possible</li><li>• 1 Gbit/s 50/125 MM 850 nm</li></ul>                                                       |
| <b>LEDs</b>       | <ul style="list-style-type: none"><li>• 2 LEDs (network activity RJ45 interfaces)</li><li>• 1 ON/OFF LED</li></ul>                                                                                       |
| <b>DSCP</b>       | for IPv4 and IPv6                                                                                                                                                                                        |
| <b>QoS</b>        | 4 classes                                                                                                                                                                                                |

| MIL-STD 810G                                                                                                                       | operating                                                                                                                                                   | storage                                    |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Temperature</b><br>Method 501.5 & 502.5, Procedure I, II                                                                        | 0°C to +50°C                                                                                                                                                | -20°C to +70°C                             |
| <b>Humidity</b><br>Method 507.5, (Procedure I)                                                                                     | N/A                                                                                                                                                         | ten 24 h test cycles<br>95 % (30°C - 60°C) |
| <b>Vibration</b><br>Method 514.6, Procedure I, Cat. 20<br>Method 514.6, Procedure I, Cat. 14<br>Method 514.6, Procedure I, Cat. 20 | tabel 514.6C-VII, Abb. 514.6C-3, 60 minutes per axis<br>tabel 514.6C-III (OH-58AC), Abb. 514.6D-3, 60 minutes per axis<br>Abb. 514.6D-8 (M548), 1h per axis |                                            |
| <b>Shock / Drop</b><br>Method 516.5, Prozedur I                                                                                    | N/A                                                                                                                                                         | 10 40g, 11ms                               |

| MIL-STD 461F |                   |                                    |
|--------------|-------------------|------------------------------------|
| <b>CE101</b> | 30 Hz ~ 10 KHz    | CE101-4 Curve #1                   |
| <b>CE102</b> | 10 KHz ~ 10 MHz   | 115 V, Basic Curve +6db            |
| <b>CS101</b> | 30 Hz ~ 150 KHz   | CS101-1 Curve #1                   |
| <b>CS114</b> | 10 KHz ~ 200 KMz  | Curve #5-5-5                       |
| <b>CS115</b> |                   | All                                |
| <b>CS116</b> | 10 KHz to 100 KMz | Imax = 10 A                        |
| <b>RE101</b> | 30 Hz ~ 100 KHz   | RE101-2, Navy                      |
| <b>RE102</b> | 10 KHz ~ 18 GHz   | RE102-4, Navy<br>Fixed & Air Force |
| <b>RS101</b> | 30 Hz ~ 100 KHz   | RS101-1, Navy                      |
| <b>RS103</b> | 2 MHz ~ 40 GHz    | 2 MHz ~ 8 GHz,<br>50 V/m           |



The Mission Modules are individually stackable



The individual RW11 mission modules are screwed on the front and positioned and secured on the back by holding bolts



The 8-port FO switch can also be used as a stand-alone solution

## Transmission Types

## Supported Protocols

## Port Grouping

## VLAN

## DHCP

## Rapid Spanning Tree Protocol

## SSH

## DoS

## Packet Frame

## Security

## IP Protection

## Environmental Specification

## EMI Specification

## Montage

## Dimensions (H x B x T)

## Weight

Full Duplex (IEEE 802.3x), Half Duplex, symmetrical and asymmetrical

IEEE 802.1D, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad, IEEE802.3af, IEEE 802.3at, IEEE 802.3az, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z

up to 8 groups  
• 8 ports per group with 16 users

up to 4096 VLANs

Auf Layer 2 & 3, DHCP Server Funktionalität, DHCP Snooping

IEEE 802.1d Standard, IEEE 802.1w Rapid, IEEE 802.1s Multiple

supports SSH v1 & v2

protection against DoS attacks

Jumbo up to 9216 Bytes

Multicast, Broadcast & Flooding Kontrolle

IP65

according to MIL-STD-810G

according to CE, MIL-STD-461F

DockUnder with fixation for RW11

ca. 48 x 382 x 277 mm

ca. 2.5 kg

v1.3



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