

# 8-Port Switch

RW11 Mobile Server

# RJ45

# Mission Module



The „8-port RJ45 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 Diamant Systems EPS-8100-XT and supports up to eight RJ45 ports as well as Layer 2-4 switching. It enables full duplex, half duplex, symmetric and asymmetric transmission modes and allows VLAN, DHCP, port grouping and much more.

The 8-speed Gigabit Switch is simply coupled via retaining bolts to the RW11 or the fiber-optic switch and / or power module. 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 2-4)
<b>Network</b>	Ethernet, Fast Ethernet, Gigabit Ethernet
<b>Management</b>	8051 Microcontroller, access serial or web
<b>Memory</b>	2 MB Flash, 128 KB SRAM, 8 KB EEPROM
<b>Interfaces</b>	<ul style="list-style-type: none"><li>• 8x 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>LEDs</b>	<ul style="list-style-type: none"><li>• 16 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
<b>Transmission Types</b>	Full Duplex (IEEE 802.3x), Half Duplex, symmetrical and asymmetrical
<b>Supported Protocols</b>	IEEE 802.1D, IEEE 802.1w, IEEE 802.1s, IEEE 802.1X
<b>Rapid Spanning Tree Protocol</b>	IEEE 802.1W
<b>Packet Frame</b>	176 KB frame buffer, supports jumbo frames
<b>Security</b>	Multicast, Broadcast & Flooding control

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MIL-STD 810G	operating	storage
<b>Temperature</b> Method 501.5 & 502.5, Procedure I, II	-40°C to +85°C	-40°C to +85°C
<b>Temperatureshock</b> Method 503.5, Procedure I	-40°C to +85°C	-20°C to +60°C
<b>Humidity</b> Method 507.5, Procedure I	N/A	ten 24 h test cycles 95 % (30°C - 60°C)
<b>Vibration</b> Method 514.6, Procedure I, Cat. 20 Method 514.6, Procedure I, Cat. 14 Method 514.6, Procedure I, Cat. 20	tabel 514.6C-VII, Abb. 514.6C-3, 60 minutes per axis tabel 514.6C-III (OH-58AC), Abb. 514.6D-3, 60 minutes per axis Abb. 514.6D-8 (M548), 1h per axis	
<b>Shock / Drop</b> Method 516.5, Procedure 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 Fixed & Air Force
<b>RS101</b>	30 Hz ~ 100 KHz	RS101-1, Navy
<b>RS103</b>	2 MHz ~ 40 GHz	2 MHz ~ 8 GHz, 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 RJ45 switch can also be used as a stand-alone solution

<b>IP Protection</b>	IP65
<b>Environmental Specification</b>	according to MIL-STD-810G
<b>EMI Specification</b>	according to CE, MIL-STD-461F
<b>Mounting</b>	DockUnder with fixation for RW11
<b>Dimensions (H x B x T)</b>	ca. 42 x 382 x 277 mm
<b>Weight</b>	ca. 2.0 kg

