PROFITAP

C8-1G
High Density Gigabit Ethernet TAP

CUSTOMER SUPPORT INFORMATION
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This package includes:

- 1 x C8-1G main unit
- 2 x C13 power cord

1. General information

The C8-1G seamlessly duplicates all in-line 10/100/1000BASE-T traffic at wire speed. It monitors all 7 OSI layers, and mirrors packets of all sizes and types, low-level errors, and VLAN traffic.

The C8-1G is non-intrusive, has no IP address, and isolates monitoring devices from the network. Once in place, it allows monitoring devices to be connected and disconnected at will, with no impact to the network link.

The C8-1G features redundant PSUs, allowing a second power supply to activate in case the first power line were to fail. In case of complete power failure, the C8-1G ensures that the network link remains operational by instantly switching to a fully passive mode.

2. Functional description

2.1 Interface connectors

C8-1G features a total of 32 RJ45 ports, for 8 individual TAP points. TAP points are numbered from 1 to 8.

Each TAP point consists of 4 ports. Network ports *Net A* and *Net B* are connected in-line to the network. Monitor ports *Tap A* and *Tap B* are connected to the analyzer.

2.2 LEDs: Speed/Link/Activity

LEDs indicate Speed, Activity and Link for each of the 32 ports. Speed LEDs light up when a link is detected on the port, and blink when a signal is detected.
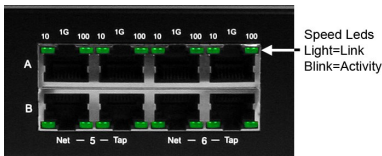
2.3 Power

C8-1G features two C14 inlets at the back of the unit. Each inlet corresponds to one 100–240 VAC PSU. Connect a power line to one inlet for normal operation. To make use of the C8-1G's redundant powering feature, connect each inlet to a separate power line. Redundant powering ensures maximum uptime of the unit. Two LEDs show the presence of power.

2.4 Power failure

When both PSUs are unpowered, all *Net* (Network) ports are switched a fully passive mode, and all *Tap* (Monitor) ports are disabled. This ensures a permanent network link at all times.

3. Installation

1. **Before** powering the C8-1G unit: connect one side of the network link to *Net A*, and the other to *Net B*. Power both network devices **before** powering the TAP.

Note: A powered TAP will always correct a wrong cable setup.

Connect the network using category 5e UTP cables.

In case of 10/100M network hardware which does not support auto-crossover:
• If the network devices are of a different type (1 DTE and 1 DCE), use 2 straight cables.
• If both network devices are of the same type (both DTE or both DCE), use 1 straight and 1 crossover cable.

Connected network devices should show *Link* (or *Activity*). If there is no *Link*, change one of the cables to one of an opposite type.

2. Power the TAP by connecting either PSU 1 or PSU 2 to a power line. For redundant powering, connect both PSU 1 and PSU 2, to separate power lines. Use the supplied C13 power cords to connect to the C14 inlets at the back of the unit.

Safety notes:
• Use only power cords and power outlets with proper earthing connection.
• The power outlets shall be kept easily accessible after installation.

The *Power 1* and *Power 2* LEDs indicate power to PSU 1 and PSU 2 respectively.

After negotiation of the highest mutual speed, the ports LEDs indicate the network speed:
• Left LED for a 10M connection
• Right LED for a 100M connection
• Both LEDs for a 1G connection

Fast blinking LEDs on *Net A* and *Net B* indicate network activity.

3. Connect the monitor ports, *Tap A* and *Tap B*, to the analyzer, using straight or crossover category 5e cables.

The monitor ports operate at the same speed as the network ports. The monitor ports' LEDs light up when a link is found.

Network traffic received by *Net A* will be mirrored to *Tap A*, and network traffic received by *Net B* will be mirrored to *Tap B*.

The maximum distance between any of the connected devices is 100 meters.

4. Technical specifications

Connectors	32 x RJ45, 8-pin, gold plated
LEDs	64 x Link/Activity/Speed 2 x Power
Power supplies	2 x 100–240 VAC stabilized, 50–60Hz, 50W
Power consumption	50W
MTBF	150,000 hours
Enclosure	Steel and aluminum, structured black oven painted
Dimensions (WxDxH)	440 x 260 x 44 mm 17.3 x 10.2 x 1.7 in
Weight	3.6 kg 7.94 lb
Operating temperature	0°C to 50°C
Storage temperature	-20°C to 70°C
Humidity	10 to 90%, non-condensing
Certifications	RoHS — CE — FCC class A IEEE 802.3 — UL 62368-1

5. Safety

• This equipment is not suitable for use in locations where children are likely to be present.

• This device features more than one power supply unit. Disconnect ALL power cords before servicing the device, to avoid any risk of electrical shock.

• Do not push or force any objects through any opening in the chassis frame, as it could result in electrical shock or fire.
• Avoid spilling liquid onto the device, as it could cause electrical shocks or damage the device.

v4.8

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