

PROFITAP

High Density Fast Ethernet TAP



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Index	pages
1. General Information	3
2. Functional Description	4
2.1 Introduction	4
2.2 Security	4
2.3 Power	4
2.4 Power Failure	4
2.5 Power over Ethernet	4
3. Installation	5
4. Available models	6
5. Additional information	7

1. General Information



C20-100

The C20-100 is designed for Half/Full duplex 802.3 Ethernet Networks. The no package loss and redundant power feature makes it the ideal solution for security networks.

The tap is invisible and non-intrusive to the network. It has no IP address and mirrors all traffic including Layer 1 and Layer 2 errors to the monitor ports.

It is redundant powered to guarantee maximum monitoring uptime. If one power fails the secondary power will automatically replace its function without causing any interruption in the network traffic. The permanent link feature in the network guarantees permanent network connectivity also when power fails.

The C20-100 passes 10 or 100 Mbps traffic and PoE (802.3af) without interference. No active components are used in the network link, it does not introduce a point of failure.

2. Functional description

2.1 Introduction

The C20-100 tap is a multiple structure with the tap ports on the front and the network ports on the backside of the unit. Network Ports A and B are connected in the network, Tap Ports A and B are connected to monitor device A respective B.

2.2 Security

The tap is 802.3 compliant and none-intrusive to the network. Network ports A and B are hardwired together and the tap does not introduce a point of failure in the network.

It has no IP address and is invisible to the network. It does not interfere in auto negotiation, speed and duplex settings.

2.3 Power

The C20-100 tap can be redundant powered. Using the redundant power feature guarantees a maximum uptime off the monitor ports. The second power will automatically take over the function of the first when it disappears. Two (2) LEDs show the presence of power. The tap is fully functional using only one power.

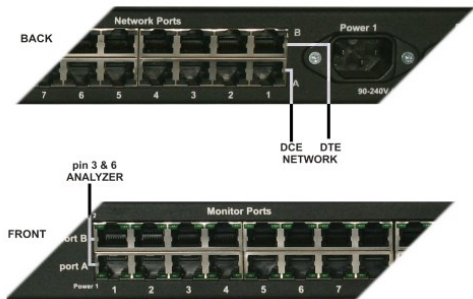
2.4 Power Failure

The uninterrupted link in the network guarantees permanent network connectivity, also when power fails. No data is passed to the TAP ports at power failure.

2.5 Power over Ethernet

The unit is 802.3af compliant and forward PoE in the Network. The tap ports are galvanically separated from the network ports and in such way protecting your monitoring equipment from PoE.

3. Installation



Power:

1. Connect power 1 (input) to mains power 1. Power LED 1 will light.
2. Connect power 2 to mains power 2 (if available). LED 2 will light.*

* The tap works on one power but no power backup will be obtained.

Cable Configuration:

Network port A: to DCE by a Straight Cable / to DTE by a Cross-Over Cable

Network port B: to DTE by a Straight Cable / to DCE by a Cross-Over Cable

Tap Port A: to Monitor Device A by a Straight Cable

Tap Port B: to Monitor Device B by a Straight Cable

TAP port A mirrors data received in Port A, TAP port B mirrors data received in Port B.

Note: The maximum length between any of the connected devices should not exceed 95 meters.

Cable requirements: 22-24 AWG unshielded twisted pair, CAT 5E or better.

Connectors	RJ45, 8 pin structure
Power	90-240V, 50-60Hz, 20W
Dimensions:	45 x 140 x 445 mm 1.8 x 5.5 x 17.5 in
Operation	0 to 50 °C
Storage Temperature	-22 to 70 °C
Relative Humidity	10 to 90%, non-condensing
MTBF	250,000 hours
Compliance	IEEE 802.3 IEEE 802.3af CE FCC class A

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