

# CENTURY TAP FAMILY

## Full-Duplex 10/100 Ethernet Splitters

### Product Features

- Allows an analyzer or probe to be inserted into a full-duplex 10/100 Ethernet segment.
- Eliminates the need for network connections to be broken, minimizing network downtime when an analyzer is needed.
- Support for full- or half-duplex segments:
  - 100Base-TX.
  - 100Base-FX.
  - 10Base-T.
  - 10Base-FL.
- Fault tolerance:
  - Bypass circuit on power failure.
  - Manual bypass switch for individual segments on 12-Tap.
  - Completely passive, fail-safe tap for fiber.
- Analyze individual segments or rove between segments using 12-Tap:
  - Software control through serial interface or across LAN when connected to Explorer or Surveyor analyzer.
  - Manual control through push button on unit.



While switched LANs have dramatically increased bandwidth, they have also introduced the problem of visibility into full-duplex switched LANs. Analyzers cannot plug into multiple point-to-point full-duplex links to monitor them. "Port mirroring" is a partial answer but has limitations in that error packets and VLAN information are not duplicated to the mirror port. Further, mirror ports do not work well for full-duplex connections—one of the primary uses of Fast Ethernet links.

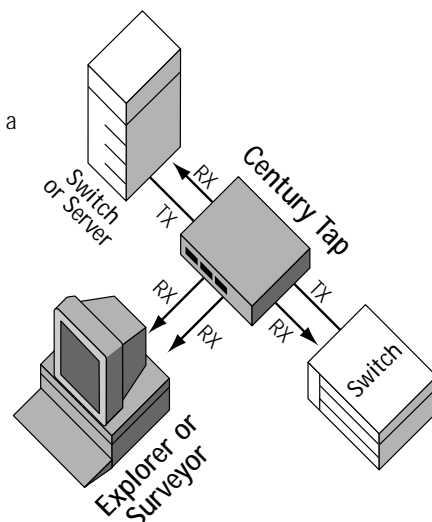
Enter the Century Tap family of products, a line of fault-tolerant wiring devices that may be inserted into full- or half-duplex 10 or 100 Mbps Ethernet links for use with Surveyor, Explorer or third party 10/100 Ethernet probes and LAN Analyzers. Century Taps provide a cost-effective and unique way for analyzers or probes to see all of the traffic on one or more previously "blind" full-duplex links.

The combination of Shomiti Surveyor or Explorer, plus Century Taps presents a more effective solution than other analyzers that can only view a single full-duplex 10/100 Ethernet segment:

- Century Taps eliminate the need for network connections to be broken and re-cabled each time a network segment needs to be analyzed.
- Century Taps plus Surveyor are much more cost-effective in networks with multiple full-duplex links.
- Century 12-Tap provides the ability to view up to twelve full-duplex segments from a single Surveyor or Explorer.

In addition, Century Taps eliminate many of the problems commonly associated with the use of a switch mirror port:

- Switch performance degradation.
- Inability to mirror errors such as undersize and oversize packets, and packets with a bad CRC.
- Inability to view VLAN traffic.
- Poor full-duplex support.



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## Tap Family Summary

### *Century Tap*

- Supports a single full- or half-duplex 100Base-TX or 10Base-T connection.
- External 9V AC power supply.
- Provides fault-tolerant bypass circuit on power failure.

### *Century Fiber Tap*

- Supports a single full- or half-duplex 100Base-FX or 10Base-FL connection.
- Supports multimode fiber (SC connectors).
- Completely passive device eliminates need for power supply.
- Absolute fail-safe operation.
- Optional 3- and 12-slot 19" racks for multi-segment configurations.

### *Century 12-Tap*

- Supports up to 12 full- or half-duplex 100Base-TX and 10Base-T connections.
- Fault-tolerant, automatic bypass circuit on power failure.
- Manual bypass switch for individual segments.
- Rove analyzer between segments through software (local or remote) or manual push button.
- 19" rack-mountable.

## Technical Specifications

Specification	Century Tap	Century Fiber Tap	Century 12-Tap
Network Ports	1 pair	Two Duplex SC connectors	12 pairs
/Media	100Base-TX or 10Base-T	Multimode fiber (62.5/125mm)	100Base-TX or 10Base-T
Monitor Ports	1 pair	Two Simplex SC connectors	1 pair
/Media	100Base-TX or 10Base-T	Multimode fiber (62.5/125mm)	100Base-TX or 10Base-T
LED Indicators	Power	None	12 Tap, 12 Monitor, Status, Power
Push Buttons	N/A	N/A	Advance, Bypass
Console Interface	N/A	N/A	VT-100 (DB-9)
Latency	Less than 1 bit time @ 100Mbps	0	Less than 1 bit time @ 100Mbps
Insertion Loss	N/A	≤ 5.0dB	N/A
Power Consumption	1.5W	N/A	18W
Fuse Protection	Internal to Class II supply	N/A	2 A, Internal to Power Supply
Input Voltage	Depends on Class II supply	N/A	85 to 265 VAC
Input Frequency	47 to 63 Hz	N/A	47 to 63 Hz
Heat Dissipation	5.12 BTU/hr	N/A	60 BTU/hr
Height	1.1 in/2.8 cm	5.0 in/12.7 cm	1.7 in/4.4 cm
Width	4.1 in/10.4 cm	1.2 in/3.05 cm	17.0 in/43.2 cm
Depth	3.47 in/8.8 cm	4.5 in/11.4 cm	9.0 in/22.9 cm
Weight	5.5 oz/156 g	8.3 oz/235.4 g	6.2 lb/13.6 kg
Mount	free standing	free standing/19 in rack mount	19 in rack mount/table top
Operational Temperature	0° to 40° C	-40° to 80° C	0° to 40° C
Storage Temperature	-10° to 65° C	-40° to 85° C	-10° to 65° C
Operational Humidity	10 - 95% non-condensing	85% @ 85° C non-condensing	10 - 95% non-condensing
Storage Humidity:	10 - 95% non-condensing	85% @ 85° C non-condensing	10 - 95% non-condensing
Electromagnetic Compatibility	FCC Class A	N/A	FCC Class A, CE
Safety	N/A (low voltage)	N/A	UL, CUL, TUV

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