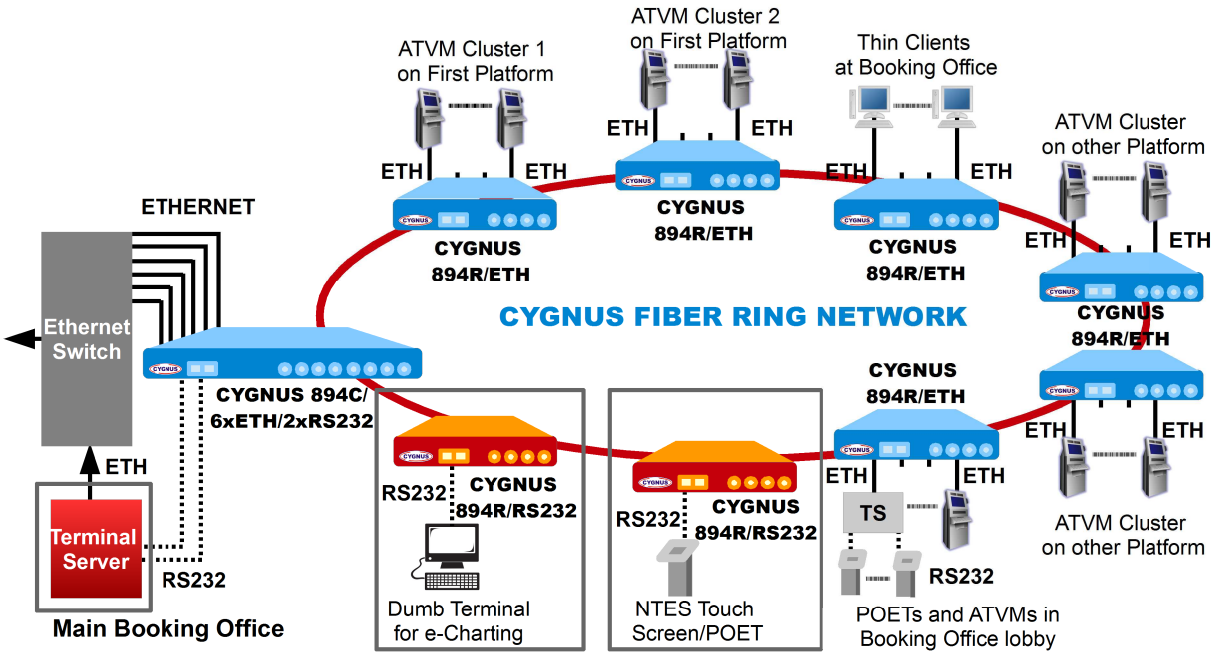
CYGNUS 894

Fiber Ring for distributing Ethernet and Async devices

FEATURES

- Ideal for extending ports of a central Ethernet Switch to multiple remote locations in a premises using an Optical Fiber Ring.
- Option is available for also accommodating async RS232 devices on the same Ring, by providing raw point-to-point connections between RS232 ports at the central site and the remote site.
- A Ring comprises of a CYGNUS 894C Central Node, and up to 8 CYGNUS 894R Remote Nodes. Each Node has 2 Fiber ports using which it connects to its previous and subsequent neighbouring nodes. The Ring is closed by connecting a fiber port of the last Remote Node back to the Central Node.
- The Central Node can have a mix of Ethernet and RS232 interfaces. Two type of Remote Nodes are available - one with Ethernet interfaces, and the other with RS232 interface.
- The Ring network offers "ring protection", i.e., if a fiber segment between 2 adjacent nodes fails, all user devices continue to have connectivity with the central site. Similarly If a Remote Node fails, user devices connected to the working Remote Nodes continue to have connectivity with the central site.
- The network avoids the cable clutter at the central sites which is common when point-to-point solutions such as LAN Extenders, Media Converters or Modems are used to extend connectivity from a central site to multiple remote sites. The cable length required to cover a premises is also less than that required in point-to-point solutions.
- The Network is flexible as it can be easily reconfigured to add, remove or shift nodes at a later date if required.
- Ring status is monitored continuously. Indicators on the Central Node allow easy identification of failed fiber segments or non-working Remote Nodes.
- Nodes may be ordered with AC or DC power supply

A TYPICAL APPLICATION



SPECIFICATIONS

Central Node - CYGNUS 894C

Number of user ports	Up to 8
User Port interfaces	Standard model: 2 Ethernet ports. Optionally, RS232 ports may be ordered for each remote RS232 node, in steps of 2 ports.
Ethernet User Port details	RJ-45 connector. Compliance: 10/100 Base-TX, Auto MDI-MDX
RS232 User Port details	RJ-45 connector. Speed: up to 115200 bps. Signals supported: Tx, Rx, Ground

Ethernet Remote Node - CYGNUS 894R/ETH

Ethernet User Port details	Built-in 4-port Switch on RJ45 connectors, 10/100-Base Tx, Auto MDI-MDX

RS232 Remote Node - CYGNUS 894R/RS232

RS232 User Port details	1 port on RJ-45 connector. Speed: up to 115200 bps. Signals supported: Tx, Rx, Ground

Fiber Ports (on all types of Nodes)

No. of Fiber Ports	2
Type of fiber	Single Mode or multimode
Fiber type	Duplex or Bi-di
Range	Up to 15 km (single mode)
Connector	SC or SFP-LC

Network Topolgy

Topology	Ring, Straight
Protection	Full protection against failure of single fiber link between any two nodes in case of ring topology. If a Remote Node fails, it will affect user interfaces connected to the particular node.
No. of Remote Nodes	Up to 8 (including Ethernet or RS232 remote nodes)

Node Management

Remote Node: Programming is via Jumpers. Console port with RS232 interface provided for monitoring. LED indicators for fiber and user port status

Central Node: Programming is via Jumpers. Console port with isolated RS232 interface provided for monitoring the entire network. LED indicators for fiber and user port status. Separate LED indicators also provided for showing whether each node is accessible.

General

Power	Ordering Option for 230 VAC or 48 V DC or 24 VDC
Dimensions	Remote Node: 190mm (w) x 50 mm (h) x 205 mm (d) Central Node: 19 inch rack mountable
Operating Temp	0-45°C
Humidity:	up to 95% RH (non condensing)

Note: Specifications are subject to change without notice

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