



CYGNUS
Products Handbook
2024

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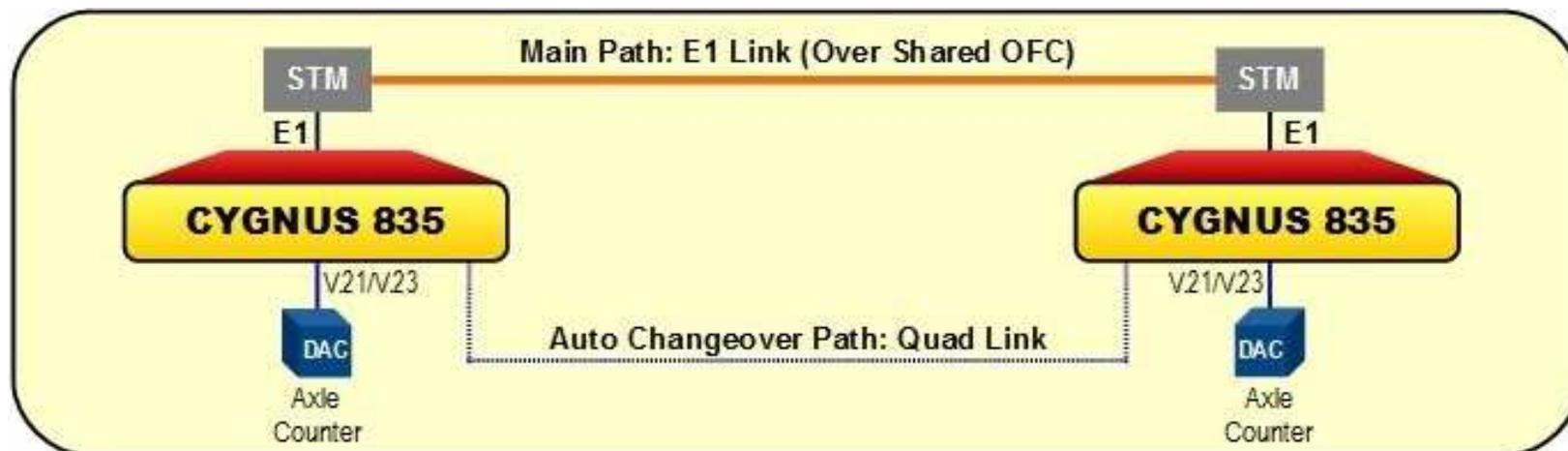
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CYGNUS 891 Fiber Ring for RS232

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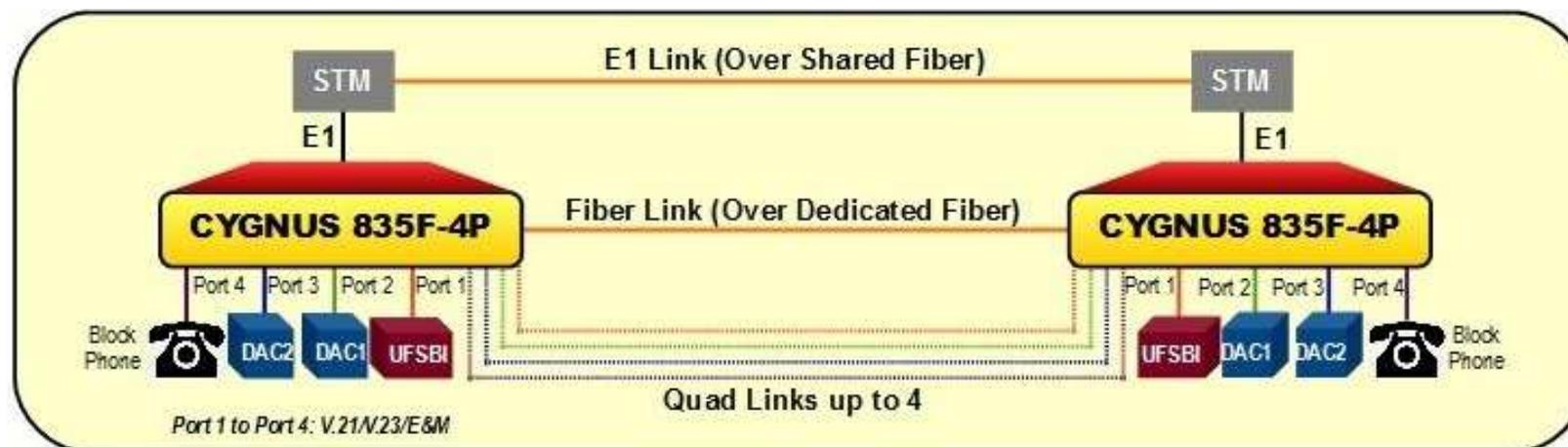
CYGNUS 835 V21/V23 to E1 Converter

- CYGNUS 835 is ideal for use in Digital Axle Counter interconnection applications in Railway signalling
- CYGNUS 835 converts ITU-T V.21/V.23 signals to E1 format, for transport on a 2.048 Mbps E1 stream via an ITU-T G.703 compatible interface.
- User interface is compatible with ITU-T V.21/V.23 and allows transport of full-duplex voice band analog modem signals over a 2-wire interface. Compatible with all standard Digital Axle Counters used by Indian Railways.
- Automatic Changeover to 6-Quad bypass copper circuit: if (a) the E1 link fails (b) E1 link degrades, or (c) if the CYGNUS 835 unit is powered off for some reason.
- Bypass link checking: The bypass 6-Quad Copper circuit is continuously checked even when the E1 link is being used
- Event logs: Time stamped record of events such as Unit Power On/Off, E1 Link Up/ Down, Bypass Link Up/Down.
- Potential Free Alarm Relay Contacts to indicate Alarms such as Unit Power Down, E1 Link Down, E1 Error Rate Threshold exceeded, Bypass Link Down. May be connected to Data Logger network for centralized monitoring of alarms.
- Operate from either 24 VDC or 48 VDC power supply.
- Industrial temperature grade components.



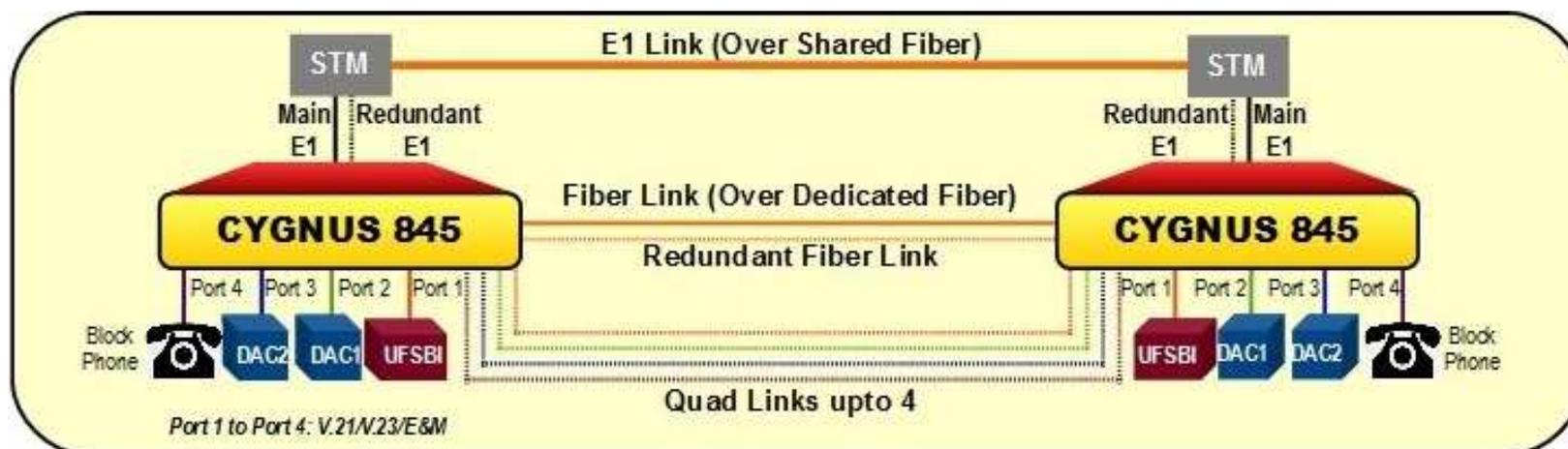
CYGNUS 835F Dual Media Auto Changeover Converter

- CYGNUS 835F Operates in pairs to transmit and receive ITU-T V.21/V.23 (E&M) signals over Dark/Dedicated Fiber or E1 links.
- Used to interconnect 2-wire devices such as Digital Axle Counters /Block Phones and 4-wire devices such as UFSBI, to their counterpart devices across a Block Section. Provides built in gain adjustment facility for 2/4-wire ITU-T V.21/V.23 (E&M) ports.
- E1 and Fiber ports serve as main links and operate as backups to each other.
- User port traffic automatically changes over to a quad copper port (a) if none of the E1 or Fiber main links are up or (b) if the unit is powered off.
- When interconnected on E1 or Fiber main links the units continuously check the quad links/health.
- Support Dual Hot Standby Power Supply. Both power supply units can operate from 24 VDC or 48 VDC.
- Unit maintains time stamped event logs of up to 1000 events such as Unit Power On/Off, E1 Link Up/Down, Fiber Link Up/Down, Quad link Up/Down.
- Potential Free Relay Contacts (PFCs) are provided to indicate alarms such as Unit Power Down, E1, Fiber, Quad links down.
- Support RS232 based supervisory and Ethernet based Telnet/SNMP management are provided. 1U height, 19 inch Rack Mountable.



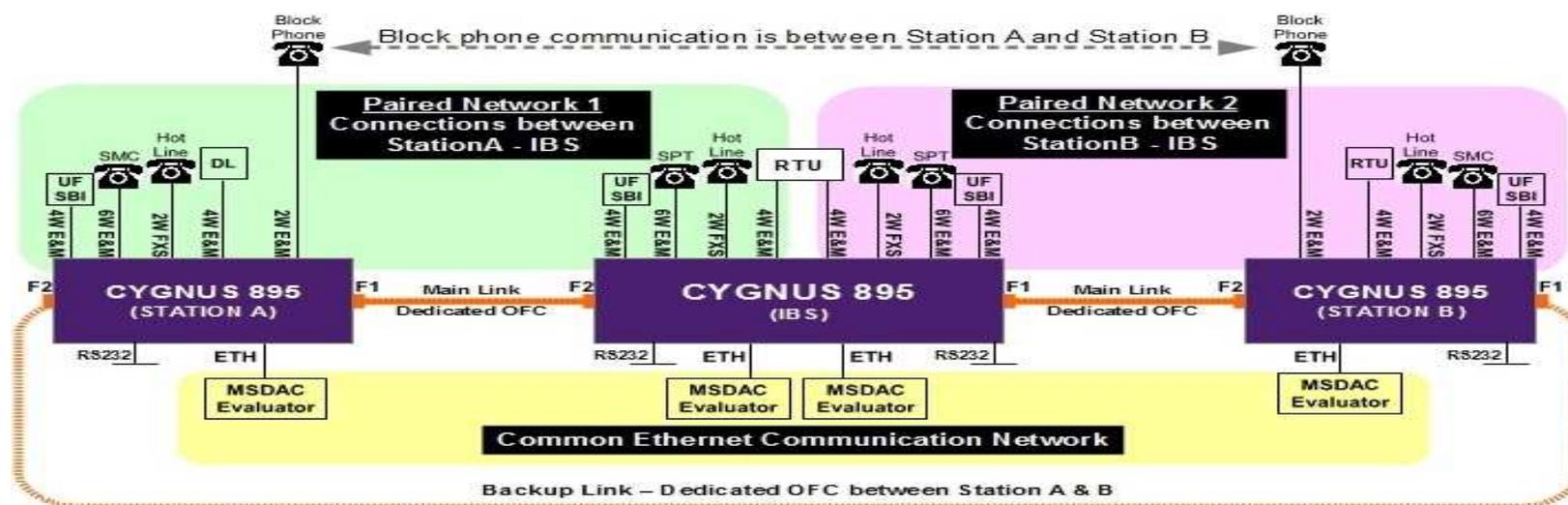
CYGNUS 845 Multiple Media Auto Changeover Converter

- A pair of CYGNUS 845 units allows transport of multiple ITU-T V.21/V.23 (E&M) signals over any one of several Fiber or E1 links.
- Used to interconnect 2-wire devices such as Digital Axle Counters/Block Phones and 4-wire devices such as UFSBI, to their counterpart devices across a Block Section. Provides built in gain adjustment facility for 2/4-wire ITU-T V.21/V.23 (E&M) ports.
- E1 and Fiber ports serve as main links, and operate as backups to each other. User port traffic automatically switches to another main link if the currently used main link fails.
- User port traffic automatically changes over to a bypass quad copper port (a) if none of the E1 or Fiber main links are up or (b) if the unit is powered off.
- When interconnected on E1 or Fiber main links the units continuously check whether the quad links/health links.
- Support Dual Hot Standby Power Supply. Both power supply units can operate from 24 VDC or 48 VDC.
- Unit maintains time stamped event logs of up to 1000 events such as Unit Power On/Off, E1 Link Up/Down, Fiber Link Up/Down, Quad link Up/Down.
- Potential Free Relay Contacts (PFCs) are provided to indicate alarms such as Unit Power Down, E1, Fiber, Quad links down.
- Support RS232 based supervisory and Ethernet based Telnet/SNMP management are provided. 1U height, 19 inch Rack Mountable.



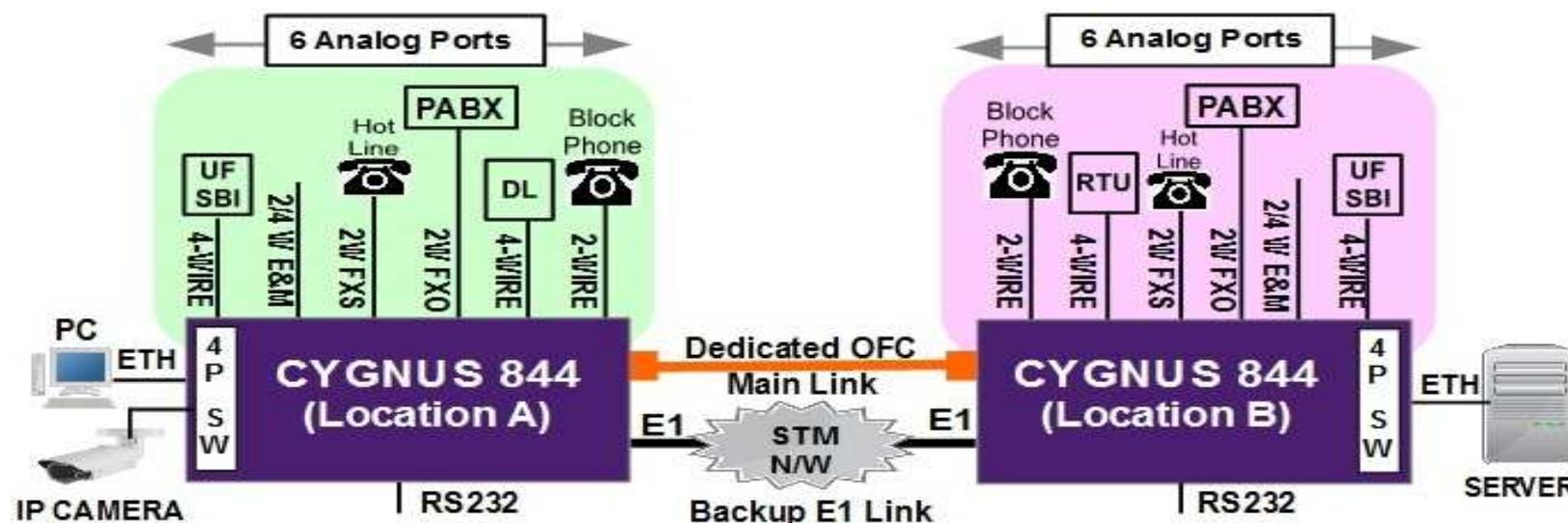
CYGNUS 895 Multiple Service Fiber Ring Multiplexer

- CYGNUS 895 is highly reliable solution for interconnecting Block Signalling equipment at Intermediate Block Site (IBS) and adjacent end stations over resilient Fiber Ring
- CYGNUS 895 units at the two end stations adjacent to the IBS using optic fiber links. User devices connected to the CYGNUS 895 units at IBS/stations can then communicate with each other.
- CYGNUS 895 units at the two end stations also interconnected using a direct “backup” fiber main link between them. If this is done, a closed ring is formed.
- CYGNUS 895 units continuously monitor the ring. If a fiber segment fails, they automatically switch user data to the other direction on the ring in less than a few tenths of milliseconds.
- Support user interfaces are Ethernet, 2/4 wire E&M, FXS and FXO, RS232
- Support Dual Hot Standby Power Supply. Both power supply units can operate from 24 VDC or 48 VDC.
- Unit maintains time stamped event logs of up to 1000 events such as Unit Power On/Off, E1 Link Down/Up, Fiber Link Down/Up.
- Potential Free Relay Contacts (PFCs) are provided to indicate alarms such as Unit Power Down, E1, Fiber link down.
- Support RS232 based supervisory and Ethernet based Telnet/SNMP management are provided. 19 inch Rack Mountable.



CYGNUS 844 Multi Service Fiber Optic Multiplexer

- CYGNUS 844 is used multiplexing of several applications such as Control Phone, Hot Line, Auto Phone, RTU, Ethernet devices such as IP cameras, client-server access, dumb serial terminal access etc
- CYGNUS 844 units are connecting Point-to-Point mode over dedicated OFC link with option of backup OFC media. In addition to OFC links the units may also be interconnected using upto two redundant E1 links
- If any of the OFC link fails traffic automatically switches to the other available OFC link or E1.
- Support User interfaces are Ethernet, 2/4 wire with E&M signalling, V.21/V.23 analog modems line, FXS, FXO and RS232.
- Support Dual Hot Standby Power Supply. Both power supply units can operate from 24 VDC or 48 VDC.
- Unit maintains time stamped event logs of up to 1000 events such as Unit Power On/Off, E1 Link Down/Up, Fiber Link Down/Up.
- Potential Free Relay Contacts (PFCs) are provided to indicate alarms such as Unit Power Down, E1, Fiber link down.
- Support RS232 based supervisory and Ethernet based Telnet/SNMP management are provided.
- 19 inch Rack Mountable.



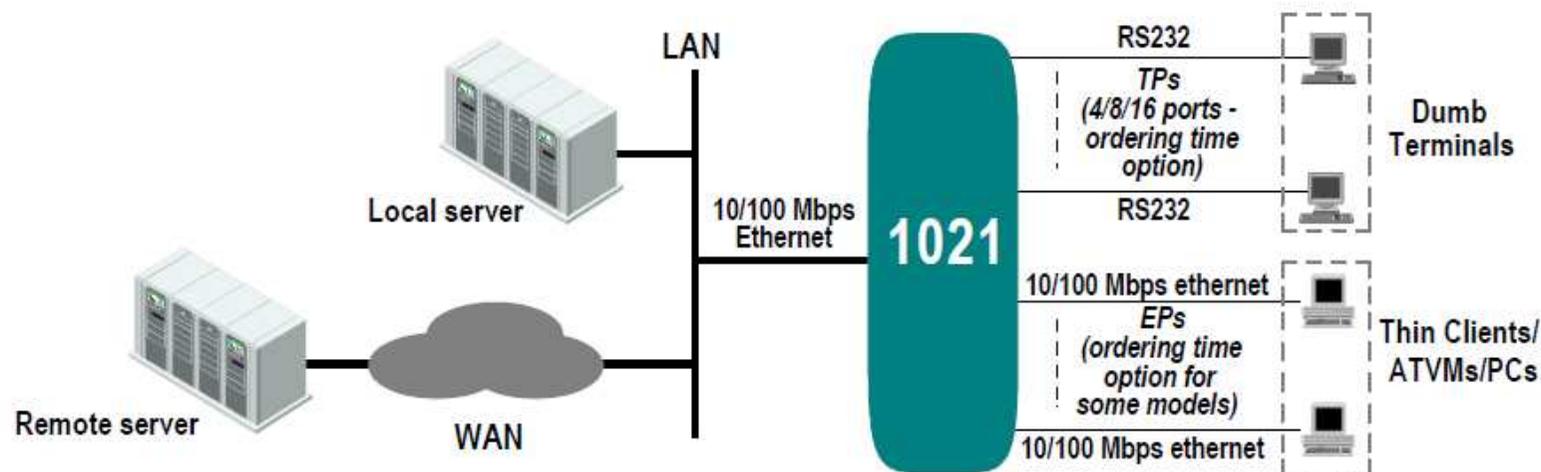
CYGNUS 855 V21/V23 to Fiber Modem

- CYGNUS 855 is ideal for use in Digital Axle Counter interconnection applications in Railway signalling
- CYGNUS 855 operates in pairs to transmit and receive ITU-T V.21/V.23 signals over a Dark/Dedicated optical fiber link.
- User interface is compatible with ITU-T V.21/V.23 and allows transport of full-duplex voice band analog modem signals over a 2-wire interface. Compatible with all standard Digital Axle Counters used by Indian Railways.
- Automatic Changeover to bypass copper circuit: This automatically switches data traffic between the Digital Axle Counters to a bypass copper circuit if the OFC link fails, or if the CYGNUS 855 unit is powered off for some reason.
- Bypass link checking: The bypass 6-Quad Copper circuit is continuously checked when the OFC link is being used
- Facility is provided to record time stamped events related to Unit power On/Off, OFC link Up/Down, Bypass Link Up/Down.
- Potential Free Alarm Relay Contacts to indicate Alarms such as Unit Power Down, OFC Link down, Bypass Link Down. May be connected to Data Logger network for centralized monitoring of alarms.
- Operate from either 24 VDC or 48 VDC power supply.
- Industrial temperature grade components.



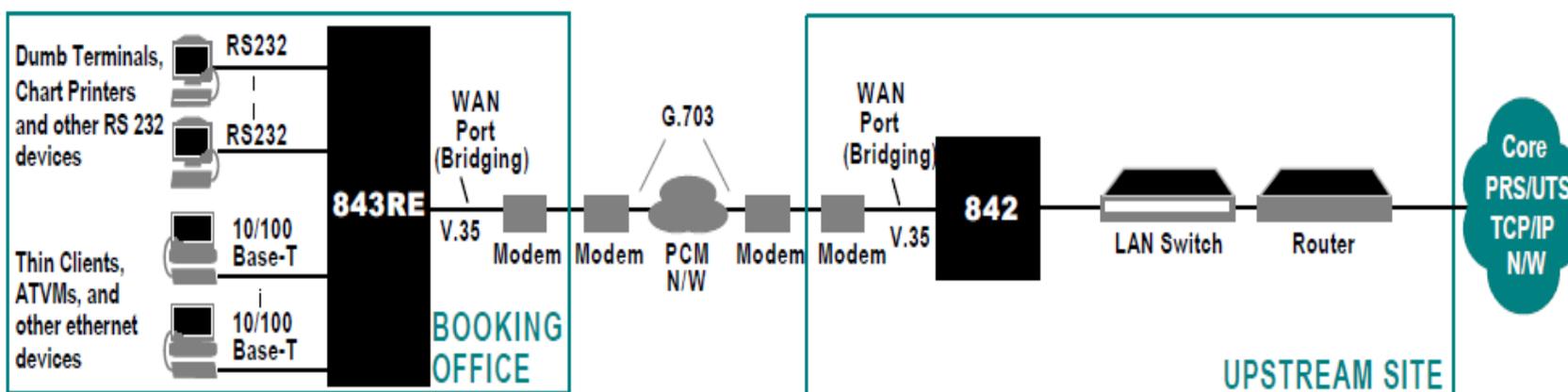
CYGNUS 1021 Terminal Server

- CYGNUS 1021 Terminal Server connects RS232 and Ethernet devices to a core TCP/IP network
- Built-in functions to aid in PRS-UTS integration in Railway applications
- Support 4, 8 or 16 RS232 Terminal ports and 1500 V AC isolation protection on all Terminal ports
- Connection establishment using TELNET or RLOGIN
- Support 8 simultaneous sessions, and to switch between these sessions without terminating any of them.
- Support "Implicit" connection facility allows Terminal Ports to be automatically connected to specific applications at power on
- Support Separate Answer Back codes for each session enhance security
- Option of 8-port 10/100 Mbps Ethernet Switch on 8/16 port models
- Menu-based supervisory port for easy configuration and quick deployment
- Support for centralised management through SNMP/Telnet.
- Power Supply: 230 VAC
- 19 inch Rack mountable



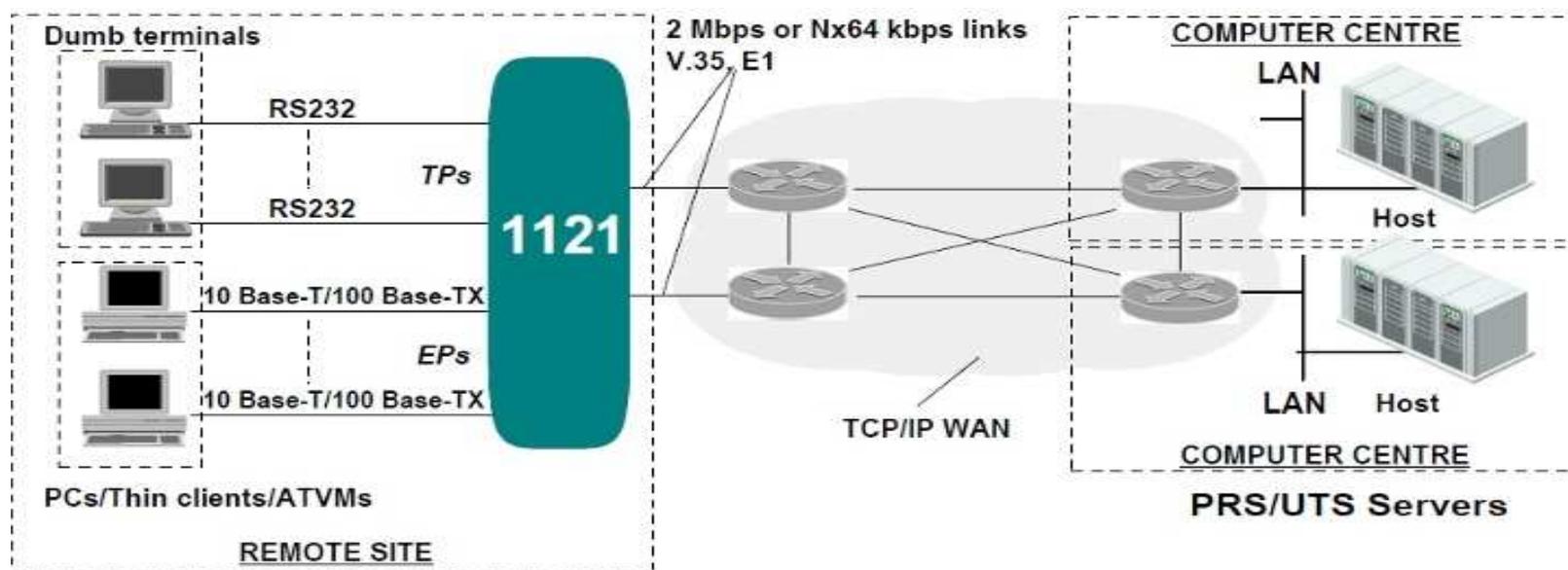
CYGNUS 843RE BriTS for RS232 and Ethernet terminals

- CYGNUS 843RE Bridging Terminal Server allows async RS232 and Ethernet devices at remote site with bridging similar or like CYGNUS 842 over a leased line which offers a V35 interface.
- CYGNUS 843RE unit requires a network IP address to be assigned. Connection establishment using TELNET or RLOGIN
- Built-in functions to aid in PRS-UTS integration in Railway applications
- Support 4, 8 or 16 RS232 Terminal ports and 1500 V AC isolation protection on all Terminal ports
- Support "Implicit" connection facility allows Terminal Ports to be automatically connected to specific applications at power on
- Support Separate Answer Back codes for each session enhance security
- Simpler, more cost-effective, when compared with alternatives using Routers, Terminal Servers and Switches
- Support speed from 64 kbps to 2 Mbps speed on V35 Port
- Built-in 4-port ethernet switch
- Support for centralised management through SNMP/Telnet.
- Power Supply: 230 VAC



CYGNUS 1121 Networking Terminal Server

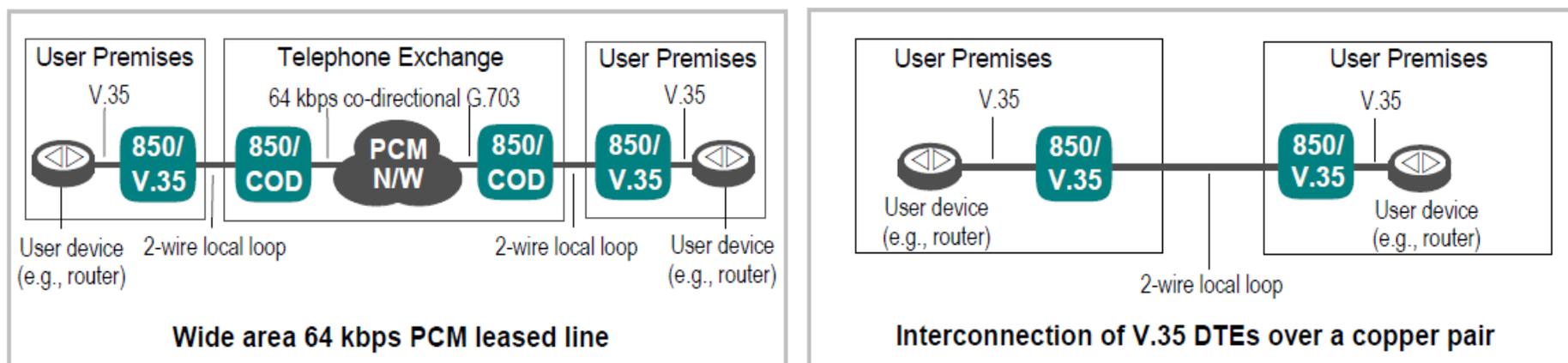
- CYGNUS 1121 Networking Terminal Server connects RS232 and Ethernet devices to a core TCP/IP WAN network
- Built-in functions to aid in PRS-UTS integration in Railway applications
- Connection establishment using TELNET or RLOGIN
- Support 2 WAN ports with standard routing protocols (Static, RIP & OSPF) with speed of 2 Mbps
- Support 8 RS232 Terminal ports and 8-port 10/100 Mbps Ethernet Switch
- Support 8 simultaneous sessions, and to switch between these sessions without terminating any of them.
- Support "Implicit" connection facility allows Terminal Ports to be automatically connected to specific applications at power on
- Support Separate Answer Back codes for each session enhance security
- Menu-based supervisory port for easy configuration and quick deployment
- Support for centralised management through SNMP/Telnet.
- Power Supply: 230 VAC
- 19 inch Rack mountable



CYGNUS 850 64kbps Modem

- CYGNUS 850 64Kbps COD and V35 modems operates on 2 wire copper circuit using G.SHDSL
- Driving range support 11 km on 24 AWG (0.5 mm dia) unloaded copper pair under error free conditions.
- Configuration through switches, console port or LCD-Keypad is ordering time option
- Support different clocking options
- Support loopback and test pattern generation facilities
- Power Supply: 230 VAC, 48V DC or both is ordering time option

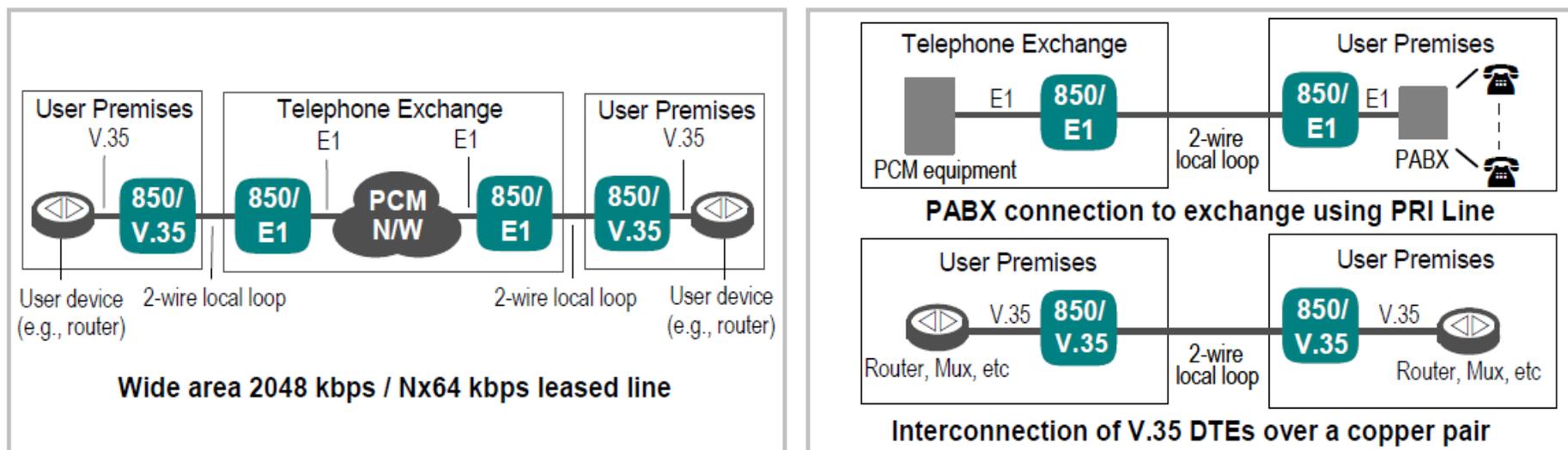
APPLICATIONS



CYGNUS 850 2 Mbps/Nx64 kbps Modem

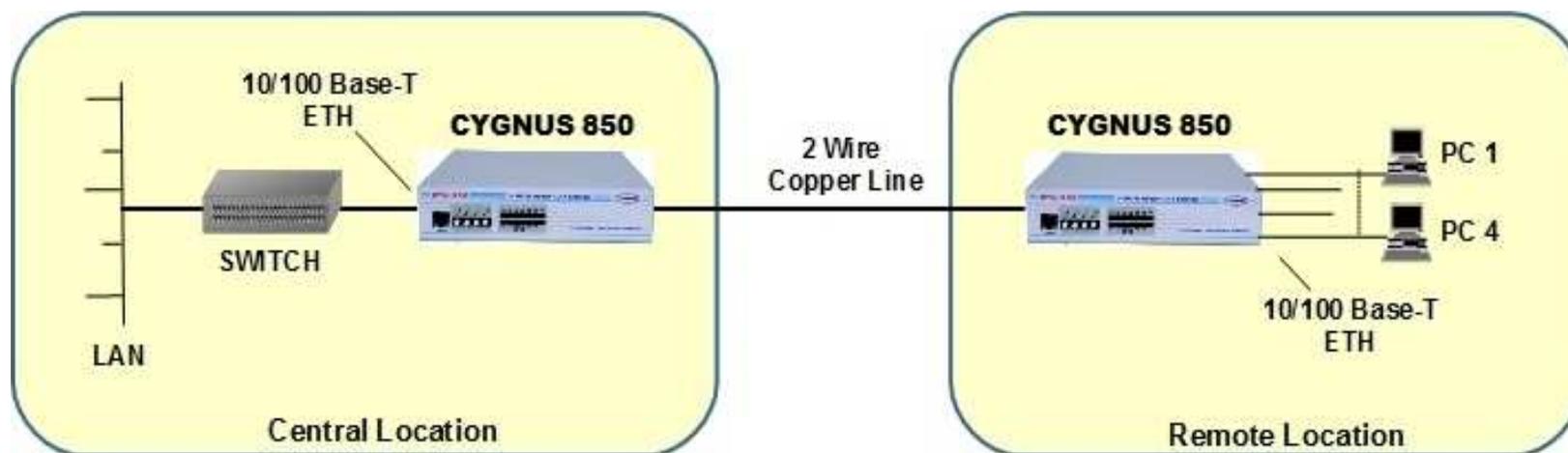
- CYGNUS 850 2 Mbps E1(G.703) and V35 modems operates on 2 wire copper circuit using G.SHDSL
- Driving range support 6.5 km at 2048 kbps, 11 km at 64 kbps on 24 AWG (0.5 mm dia) unloaded copper pair under error free conditions.
- Configuration through switches, console port or LCD-Keypad is ordering time option
- Support different clocking options
- Support loopback and test pattern generation facilities
- Power Supply: 230 VAC, 48V DC or both and 24V DC is ordering time option

APPLICATIONS



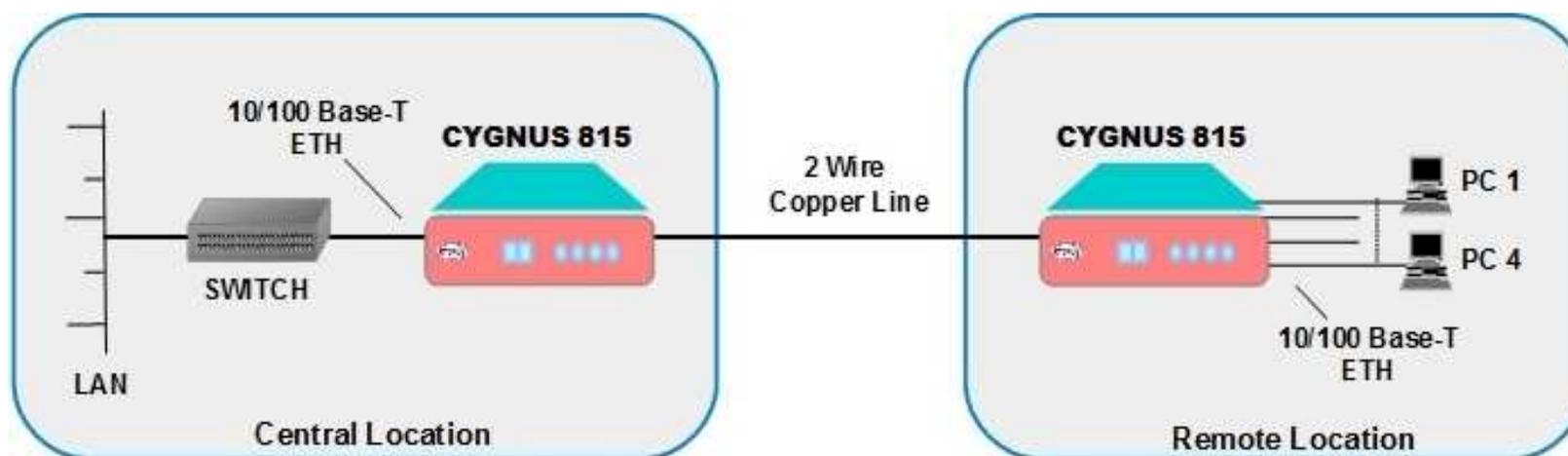
CYGNUS 850 2 Mbps LAN Extender

- CYGNUS 850 LAN Extender extends Ethernet LANs on a single 0.5 mm diameter telephone pair.
- Operates in pairs across 2-wire unloaded copper circuit
- Extends Ethernet LANs up to 10.5 km on standard 0.5 mm diameter telephone wiring
- Speed can be selected between 192 kbps and 2304 kbps to get rate-range benefit
- Offers tradeoff between speed and driving range - driving range varies from 5.5 km at 2304 kbps to 10.5 km at 192 kbps
- Support 4-port 10/100 Base-TX Ethernet switch with VLAN
- Facility for testing line quality using PRBS pattern generation and checking
- Support SNMP/Telnet/HTTP over the TCP/IP network
- Can be ordered with AC , DC or both power supplies



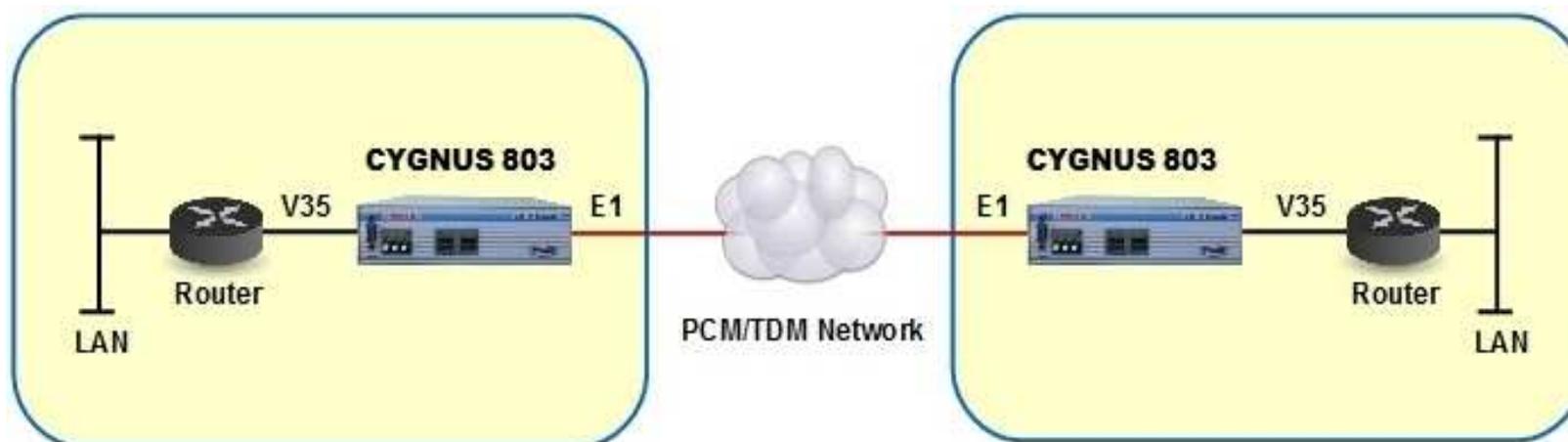
CYGNUS 815 12Mbps LAN Extender

- CYGNUS 815 LAN Extender extends High speed Ethernet LAN's over 2 wire copper line.
- Driving range support 10.5 km at 192 kbps, 6 km at 2 Mbps, 4 km at 5 Mbps. on 24 AWG (0.5 mm dia) unloaded copper pair.
- Automatically adjust line speed based on line quality and line length.
- Offers automatic adaptive speed negotiation over G.SHDSL bis range. Additional fixed speed option of 2 km at 10 Mbps and 1.2 km at 12 Mbps on error free shielded line
- Support 4-port autosensing 10/100 Base-T ethernet switch. Built-in transparent bridging functionality
- Support for VLANs is ordering time option.
- Configuration through switches, console port or TELNET/HTTP
- Support SNMP from central NMS
- Support loopback and test pattern generation facilities
- Power Supply: 230 VAC, 48V DC or both is ordering time option.



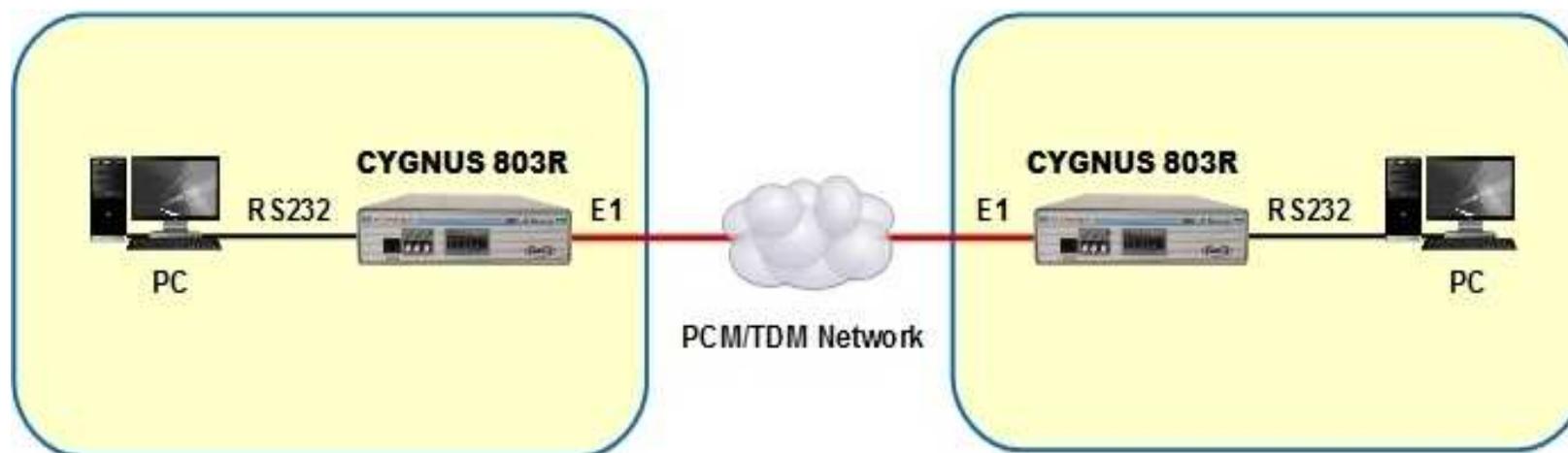
CYGNUS 803 2Mbps V35 to E1 Converter

- CYGNUS 803 allows devices such as routers to connect to E1 links telecom networks through E1 interface.
- Support E1 and V35 Digital interfaces.
- CYGNUS 803 supports connection to both framed(NX64 Kbps) and unframed E1 (2048 Kbps) links
- E1 interface complies with ITU-T Recommendations G.703 and G.704
- Frame types selectable from: PCM 30 and PCM 31, with and without CRC-4
- Menu driven supervisory software for configuration, monitoring and statistics reporting
- Built-in pattern generator and checker for qualitative and quantitative error performance monitoring of the E1 interface
- Can connect multiple DTEs to a single E1 link by cascading a number of CYGNUS 803 units.
- Ordering option power supply: 230 VAC, 48 VDC or both or 24 VDC
- Front panel indicators for displaying unit status



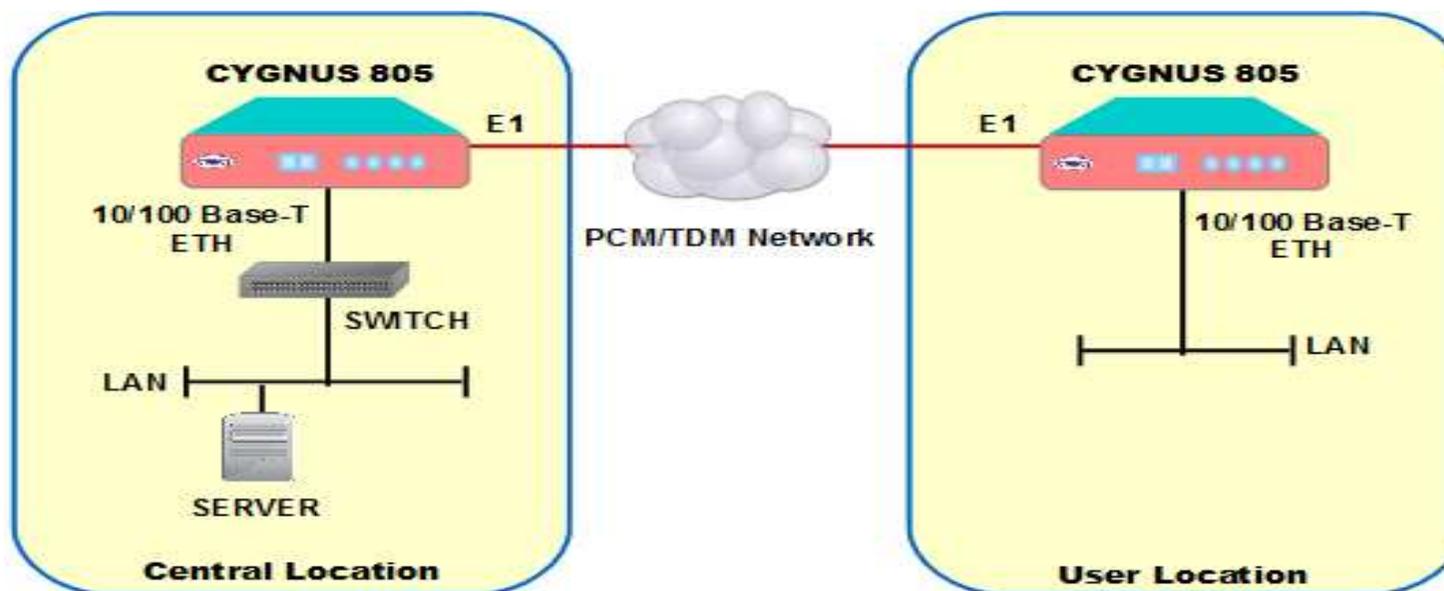
CYGNUS 803R 2Mbps RS232 to E1 Converter

- CYGNUS 803R allows RS232 interface of devices such as PC, Data Logger etc., to connect to a telecom network via the network's E1 interface.
- Support E1 and RS232 Digital interfaces.
- Supports Asynchronous data transmission on RS232 interface
- Supports connection to both framed(NX64 Kbps) and unframed E1 (2048 Kbps) links
- E1 interface complies with ITU-T Recommendations G.703 and G.704
- Frame types selectable from: PCM 30 and PCM 31, with and without CRC-4
- Menu driven supervisory software for configuration, monitoring and statistics reporting
- Built-in pattern generator and checker for qualitative and quantitative error performance monitoring of the E1 interface
- Ordering option power supply: 230 VAC, 48 VDC or both or 24 VDC
- Front panel indicators for displaying unit status



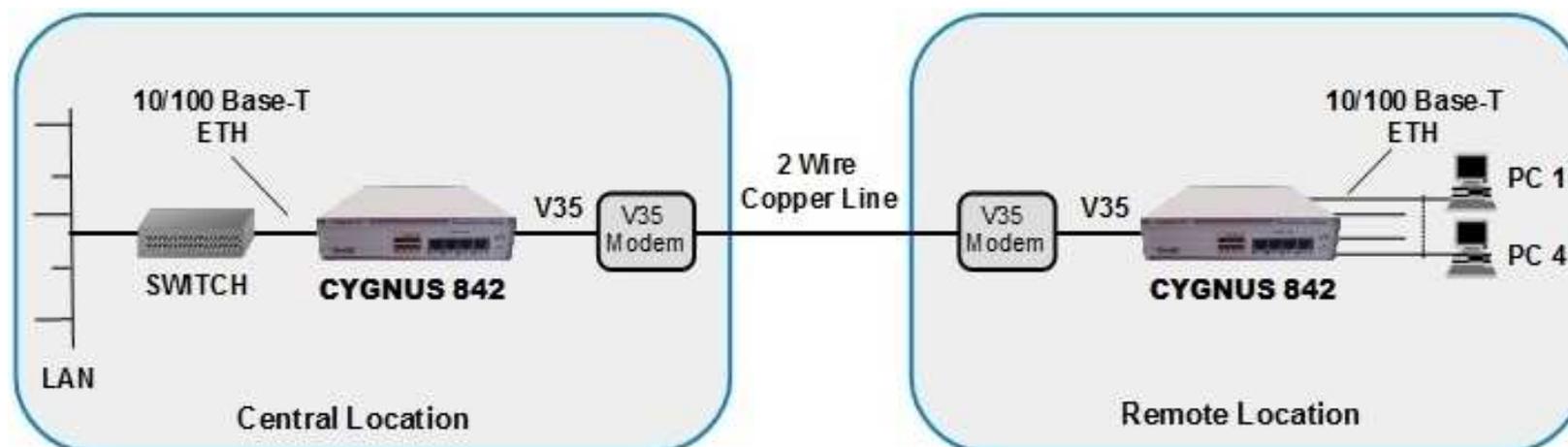
CYGNUS 805 2 Mbps Ethernet to E1 Bridge

- CYGNUS 805 Ethernet to E1 Bridge, Operates in pairs to allow 10/100 Base-T ethernet networks to be bridged over E1 links
- Supports connection to both framed and unframed E1 links
- E1 interface complies with ITU-T Recommendations G.703 and G.704
- 120 ohm balanced and 75 ohm unbalanced (ordering option) E1 interface provided
- Option for built-in 2 or 4-port ethernet switch
- Configuration through switches, console port or LCD are ordering time option
- Support loopback and test pattern generation facilities
- Power Supply: 230 VAC, 48 VDC or both or 24 VDC are ordering time option.
- Front panel indicators for displaying unit status



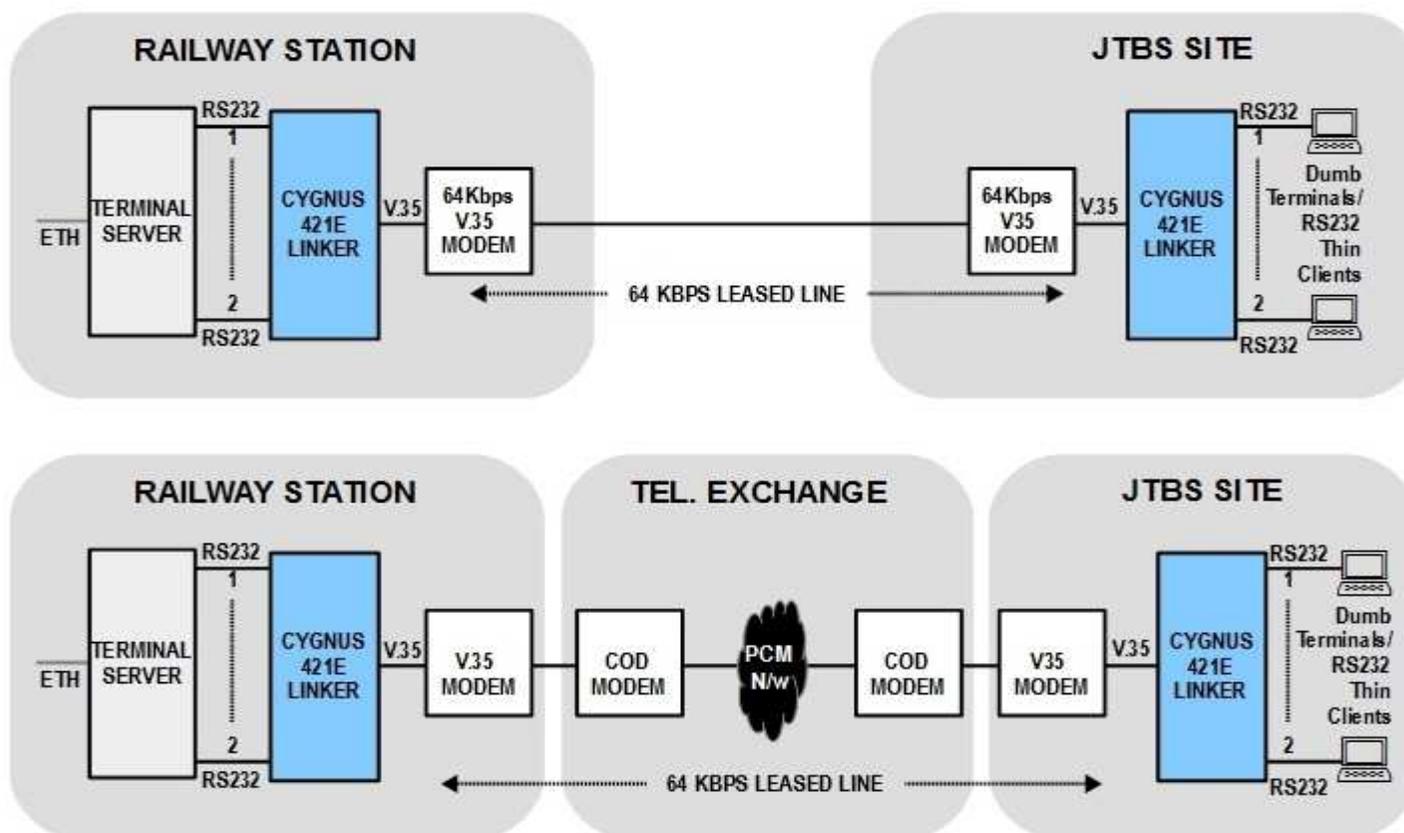
CYGNUS 842 Ethernet to V35 Bridge

- CYGNUS 842 Ethernet to V35 Bridge can be used to extend the Ethernet over the leased line with V35 interface via a modem
- CYGNUS 842 bridging with a similar unit, or Bridged Terminal Servers like CYGNUS 843 over a leased line which offers a V.35 interface via a modem
- Supports 2 Mbps speed on V35 Port
- Built-in 4-port ethernet switch
- Power Supply: 230 VAC
- Front panel indicators for displaying unit status



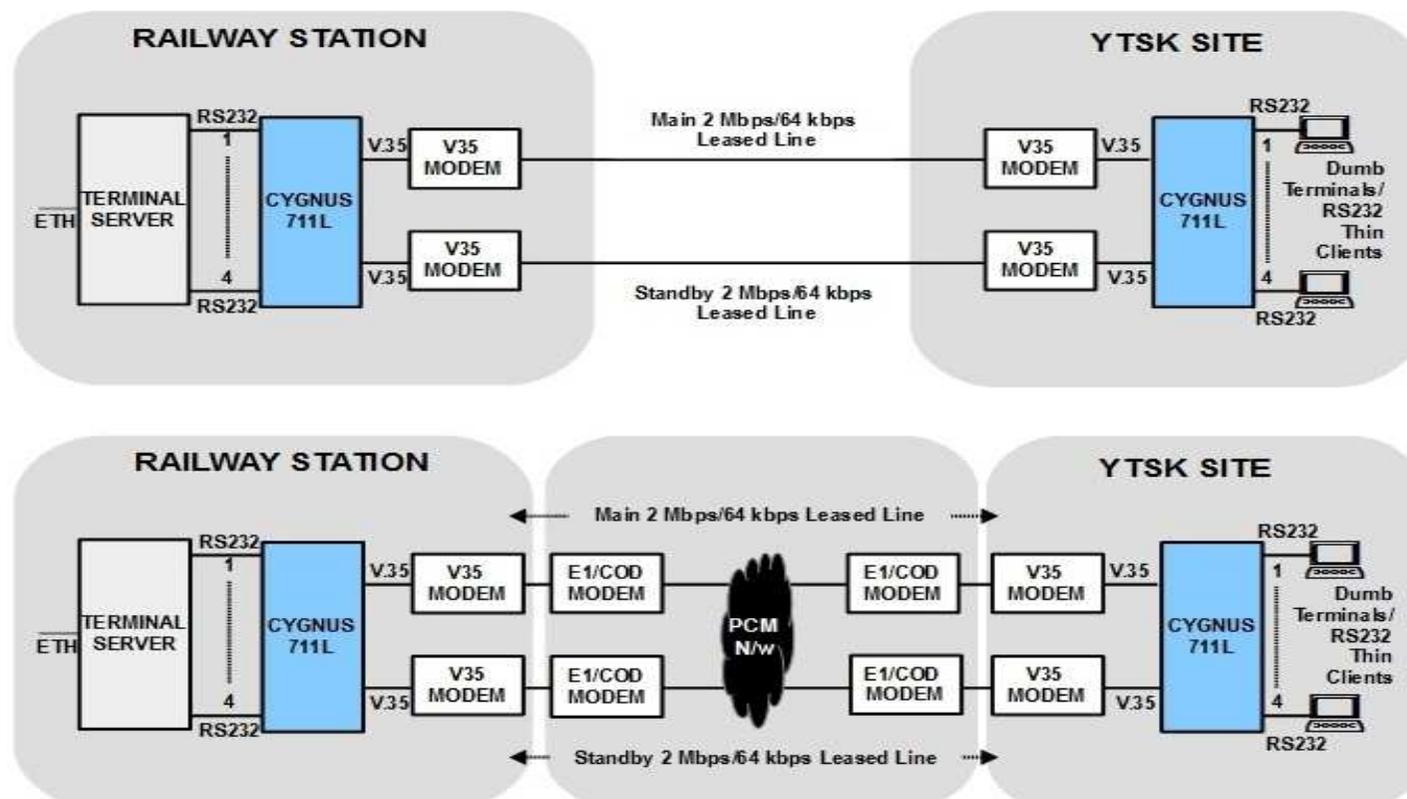
CYGNUS 421E JTBS Linker

- CYGNUS 421E JTBS Linker (ECC) is suitable for extending RS232 ports from centrally located Terminal server to a remote site.
- It is used for JTBS/YTSK agents for PRS/UTS ticket booking in Indian Railways.
- CYGNUS 421E operates in pairs across the leased line and connects to external 64 kbps modems through a synchronous V.35 interface.
- Provides automatic detection and correction of data transmission errors over a 64 kbps leased line
- Support one Network port and 2 or 4 RS232 Terminal ports.
- 1500 V AC isolation protection on all RS232 Terminal ports
- Power Supply: 230 VAC



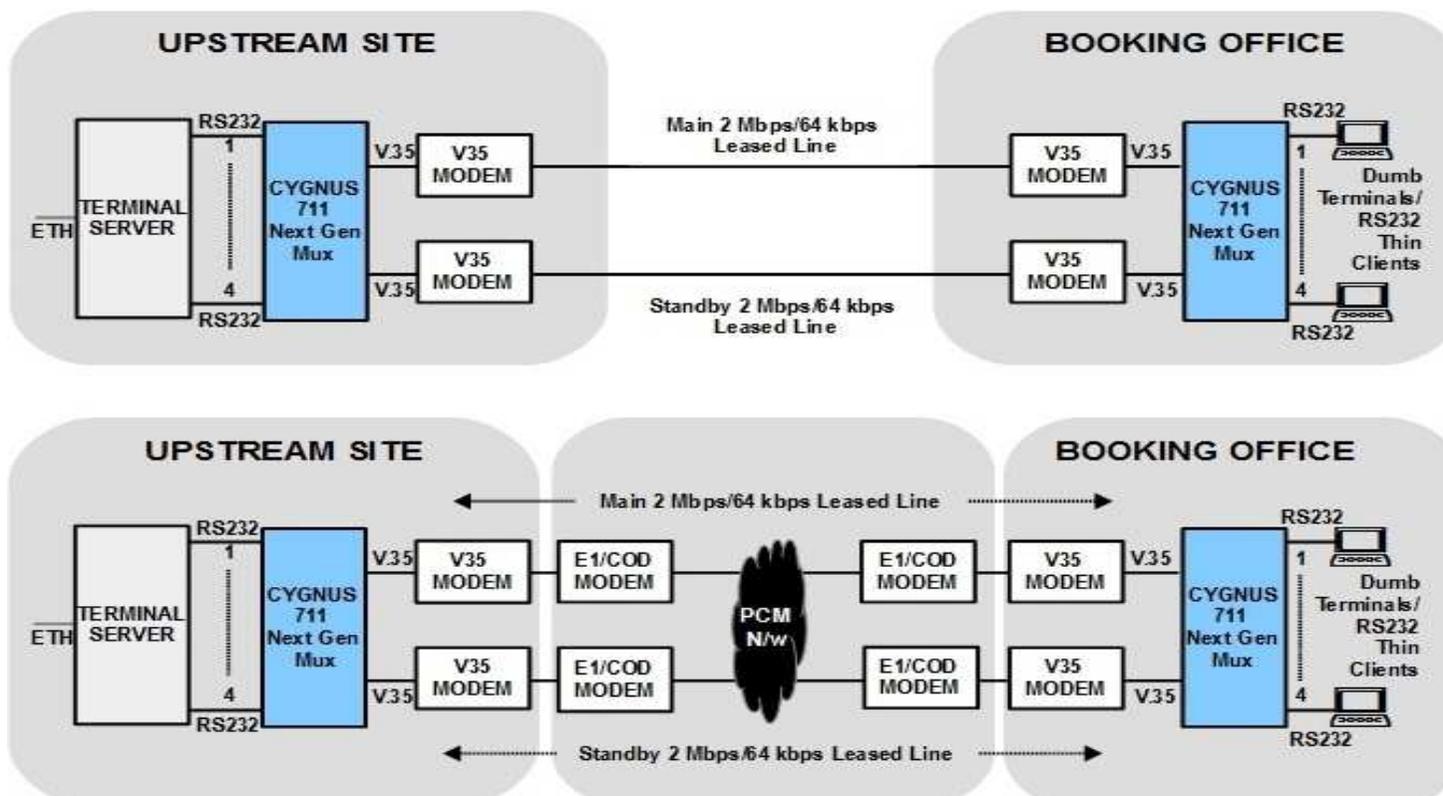
CYGNUS 711L YTSK Linker

- CYGNUS 711L YTSK Linker is suitable for extending RS232 ports from centrally located Terminal server to a remote site.
- It is used for YTSK agents for PRS/UTS ticket booking in Indian Railways.
- CYGNUS 711L is robust solution for connecting RS 232 devices in an error free manner over 64 kbps to 2Mbps leased lines
- CYGNUS 711L has 2 or 4 RS232 Terminal Ports for connecting to user terminals, and 1 or 2 V.35 Network Ports for connecting to leased lines. Support 1500 VAC isolation protection on RS232 Terminal Ports
- Leased line speed can be from 64 kbps to 2 Mbps. The lines can be traditional or MLLN leased lines.
- Ensures high up time by automatically changing over to standby link if the main link fails.
- 230 VAC operation



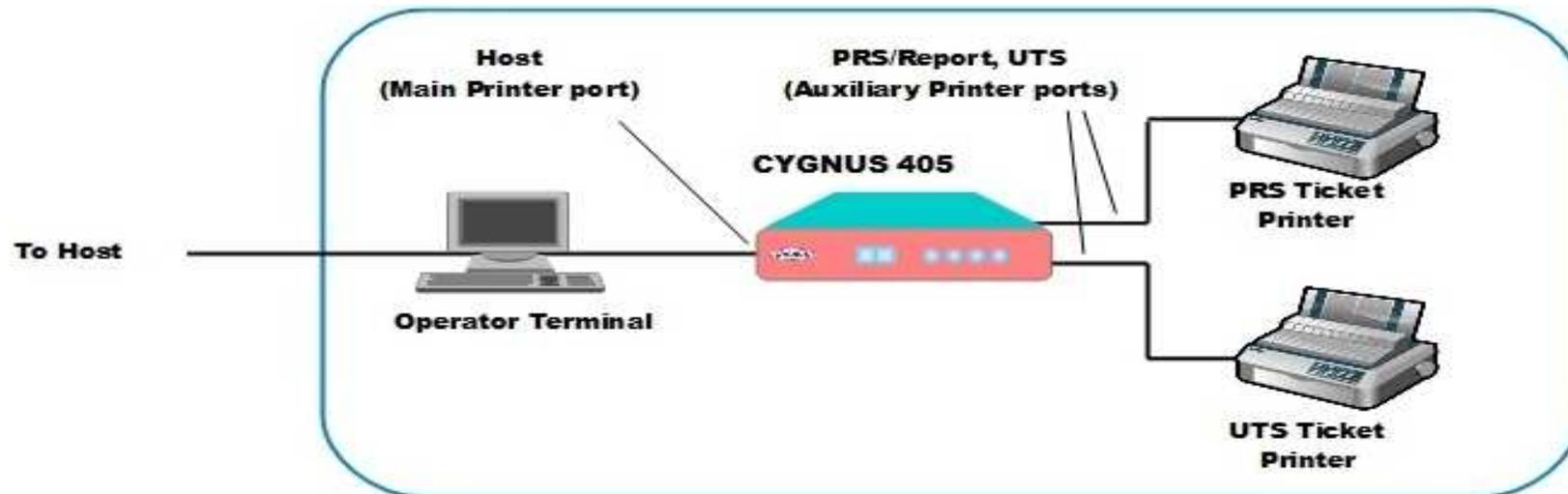
CYGNUS 711 Next Generation Multiplexer

- CYGNUS 711 Next Generation Multiplexer allows RS232 ports to be extended from an upstream site to remote locations using one or more leased lines
- Support one central unit (multiple NP) to be shared up to 4 remote booking offices
- Support Leased Line speeds 64 kbps to 2Mbps
- Support multiple Network ports 2 or 4 are ordering time option
- Support RS232 Terminal ports 4, 8 or 16 are ordering time option
- Support RS232 port speeds up to 115.2 kbps and 1500 V AC isolation protection on all RS232 Terminal ports
- Support Automatic link changeover
- 19 inch Rack mountable



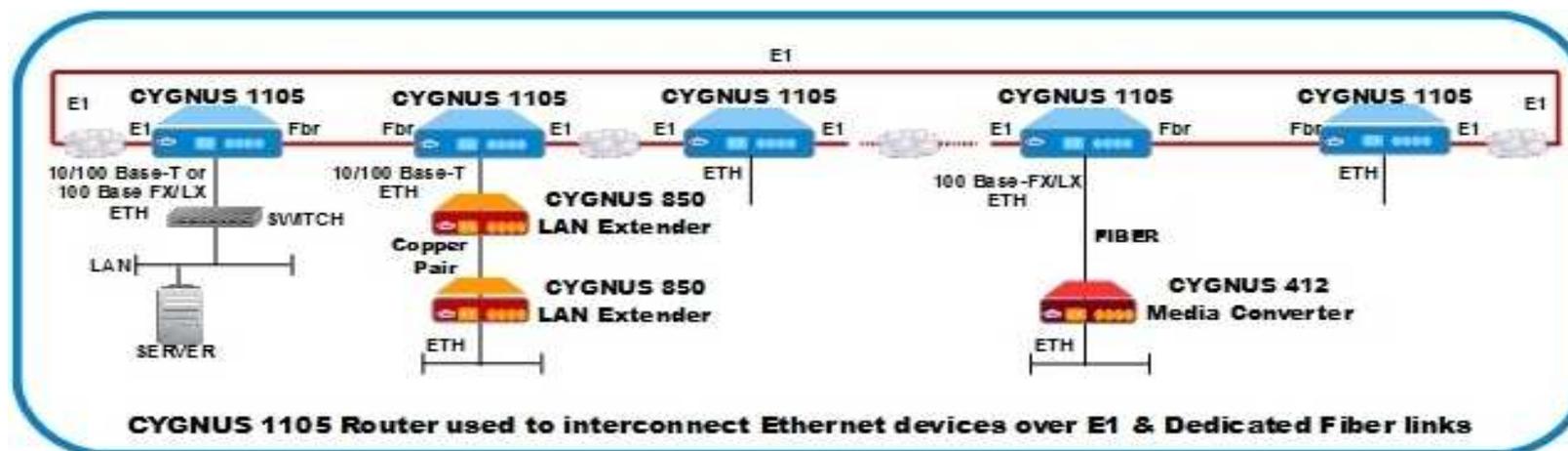
CYGNUS 405 Automatic Printer Switch

- CYGNUS 405 is designed to facilitate setting up of PRS-UTS Universal Counters in Indian Railways ticketing system.
- CYGNUS 405 Automatic Printer Switch, Automatically routes data from the terminal's printer port to the PRS or UTS ticket printer under software control.
- Designed to facilitate setting up of PRS-UTS Universal Counters (unification) in Railways' ticketing system.
- No changes required to existing PRS application. The UTS application can incorporate software for controlling the APS.
- Support "Manual bypass" mode allows traffic to be permanently routed to either of the two printers.
- Front panel status indicators.
- Rugged and compact design.



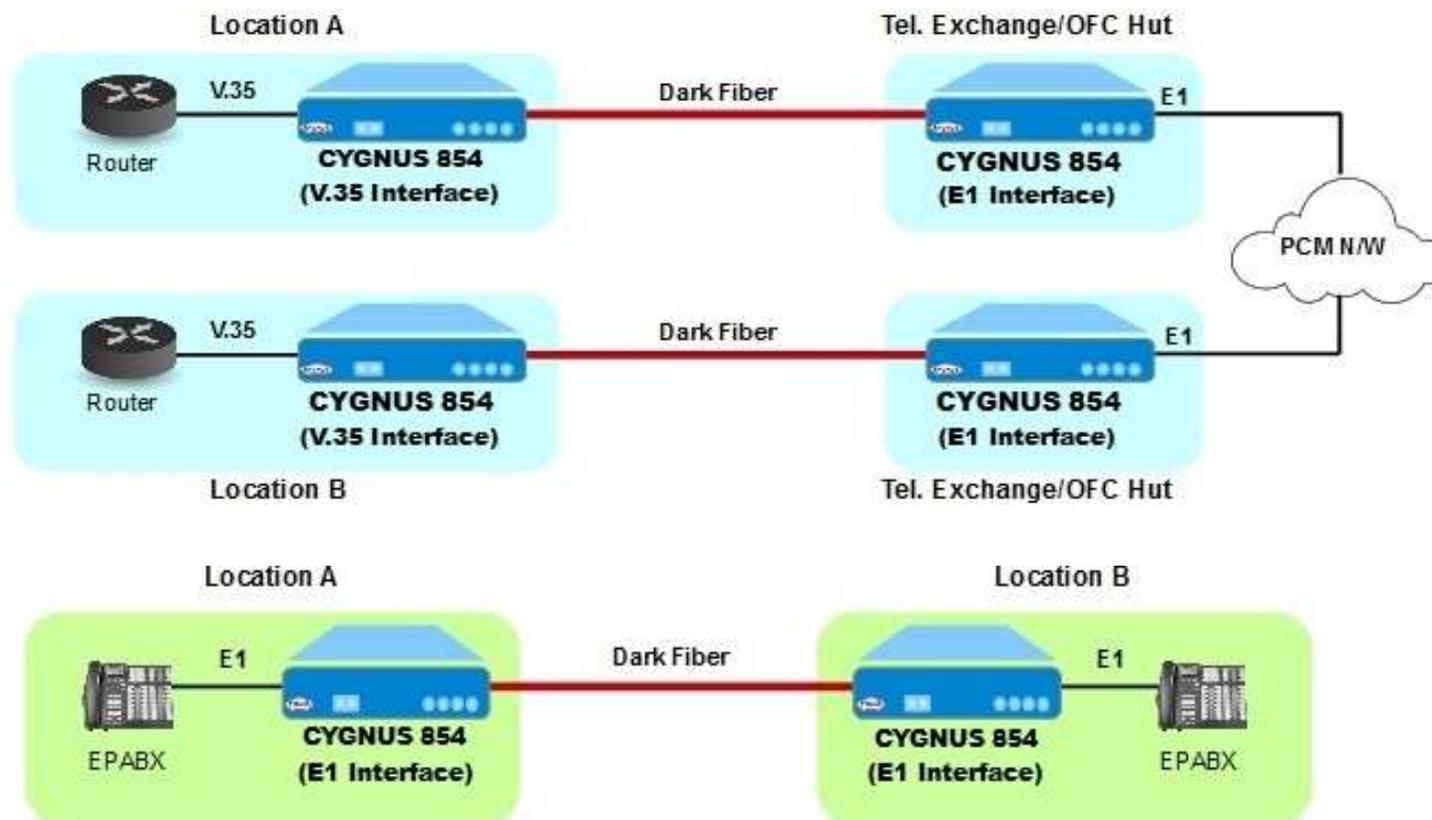
CYGNUS 1105 2WAN Router

- CYGNUS 1105 Router is ideal for providing point-to-point networking between two offices, or for multipoint networking
- Cost-effective TCP/IP router for branch office networking
- Up to 2 leased line WAN ports with options for V.35 or E1 or dedicated Fiber interface
- Up to 3 independent LAN interfaces can support built-in 10/100 Base-Tx copper or 100 Base FX fiber interfaces.
- Routing protocol support includes Static Routing, RIP and OSPF
- Supervisory control via TELNET or through a dedicated console port.
- User friendly menu based configuration and monitoring
- Dual Power Supply units operating in hot standby mode are provided. Both power supply units can operate from 24 VDC or 48 VDC.
- 19 inch Rack Mountable



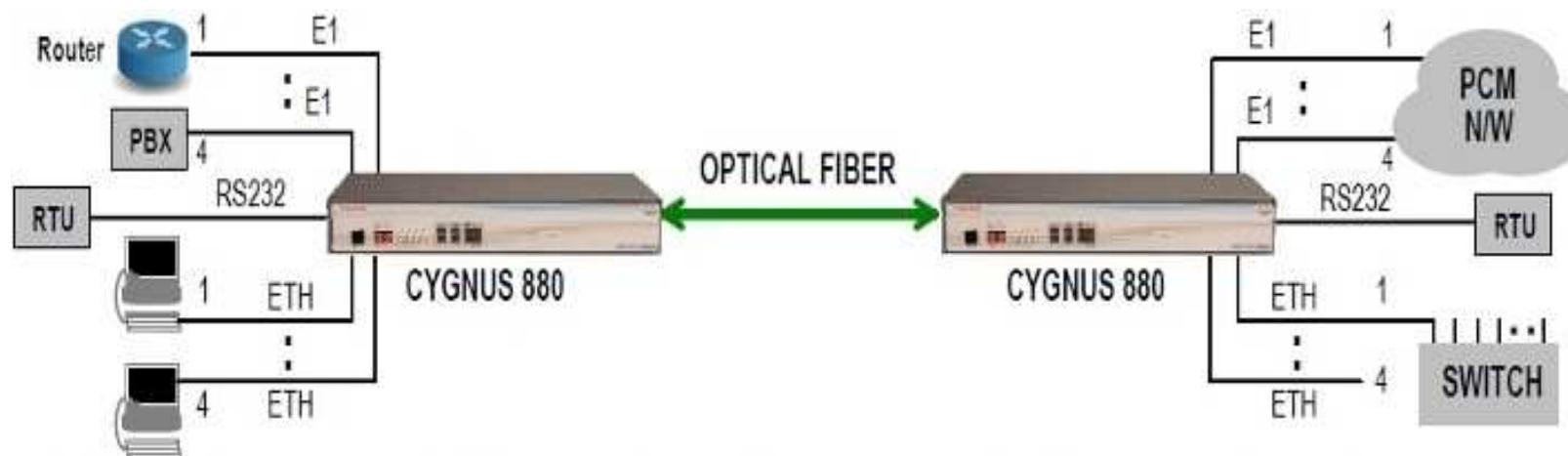
CYGNUS 854 2Mbps Fiber Optic Modem

- CYGNUS 854 Fiber Optic Modems are used to extend user equipment connectivity to telephone exchange over fiber lines
- CYGNUS 854 Modems operates in pairs on a dedicated optical fiber link to transmit and receive DTE port data across the link
- Driving range support upto 20 km on single mode optical fiber. Higher range available as an ordering time option
- DTE interfaces support 2 Mbps V.35 synchronous interface, 2 Mbps G.703 E1 interface, Asynchronous RS232/RS422 interface
- Configuration through switches and jumpers. Loop back and test pattern generation facilities for quick fault isolation
- Front panel indicators for displaying unit status
- Power supply input - ordering time options for 230 VAC, 48 VDC, or both, or 24 VDC



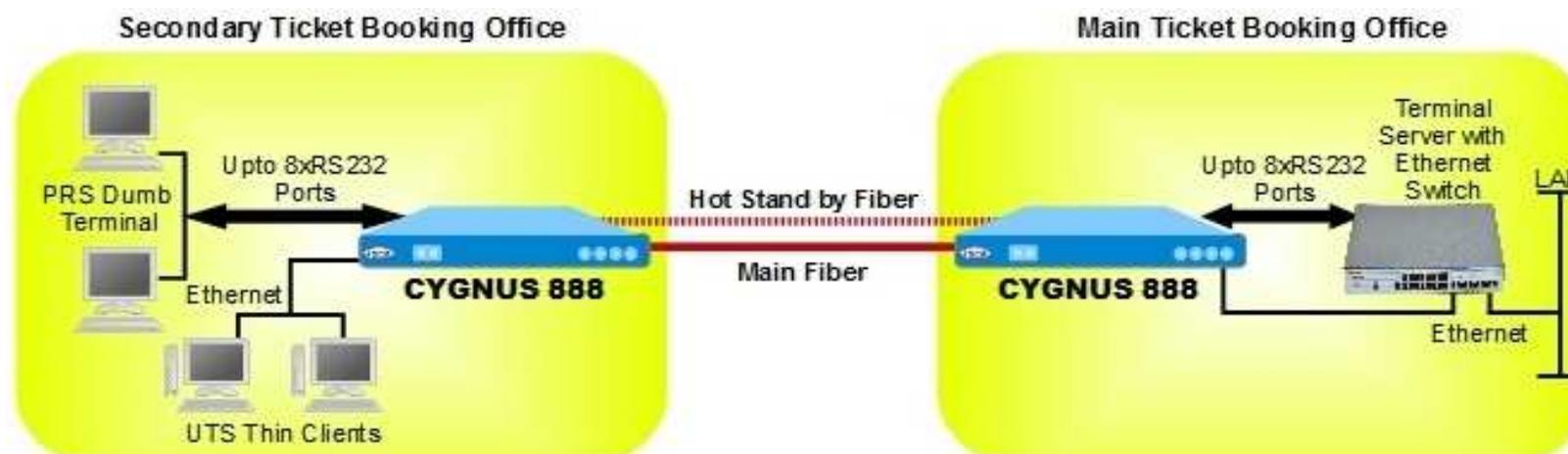
CYGNUS 880 Multi Port Fiber Optic Modem

- CYGNUS 880 FOM is ideal for point-to-point bulk transport of multiple 2 Mbps user channels over fiber using E1 or V.35 interface.
- It supports option of DTE ports: Two or four G.703 (E1) ports, or Two or four V.35 ports
- Support simultaneous transmission of Ethernet traffic over the fiber, along with traffic from any of the above DTE ports. 10/100 Mbps Ethernet with 4-port Switch having bridging functionality provided for this purpose
- As a last mile connectivity solution for 2 Mbps WAN links, user data from customer equipment with V.35 or E1 ports can be directly transported over leased lines by interfacing paired unit through E1 telecom interface at the exchange.
- Driving range: up to 20 km for single mode fiber
- Option for backup fiber port for hot standby functionality
- Unit management through RS232 compatible console port or SNMP and Telnet facility
- Loopback and test pattern facilities for quick fault isolation on both fiber side and DTE side
- Front panel indicators for displaying unit status.
- Support for 230 VAC or 48 VDC power supply



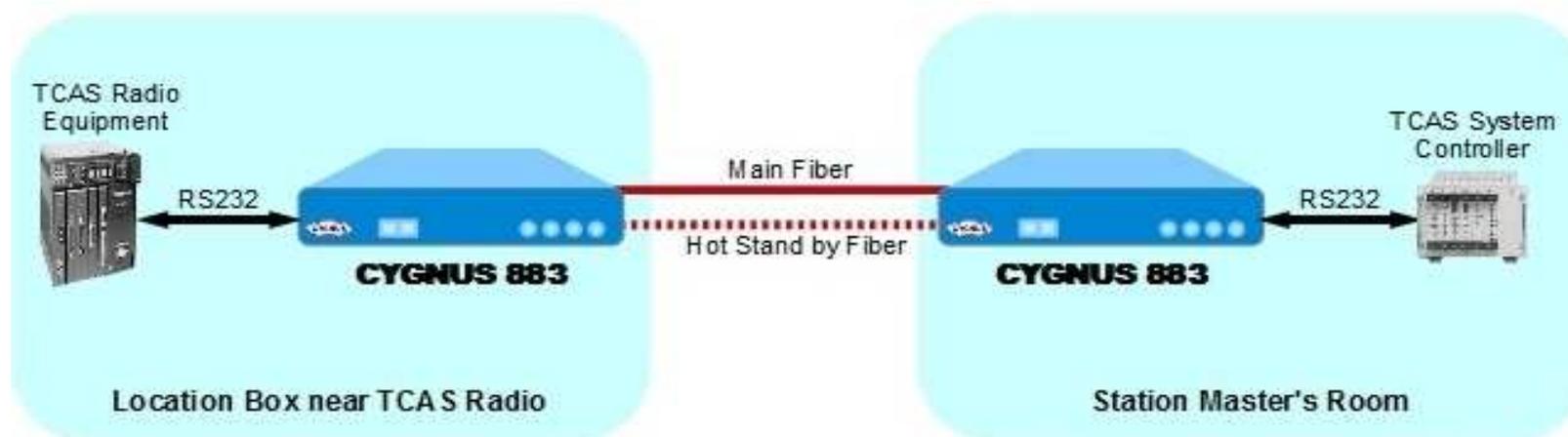
CYGNUS 888 Fiber Optic Multiplexer

- CYGNUS 888 Fiber Optic Multiplexer is suitable for extending RS232 and Ethernet ports from centrally located place to remote site using fiber lines.
- It supports 8 independent full-duplex asynchronous ports with ordering option for RS232 or RS422 interface. Maximum port speed on each of these ports can be 230,400 bps. 1500 VAC isolation protection on RS232 Terminal Ports
- Option for simultaneous 10/100 Mbps Ethernet along with the serial ports, via a built-in 4-port Switch. This allows simultaneous LAN extension over fiber.
- Driving range: up to 20 km (using single mode fiber). Option for backup fiber port with hot standby functionality
- To manage the unit Through RS232 compatible console port or SNMP and TELNET
- Loop back and test pattern facilities for quick fault isolation on both fiber and DTE interfaces
- Power supply support 230 VAC or 48 VDC.
- 19 inch Rack mountable



CYGNUS 883 RS232 Port Extender

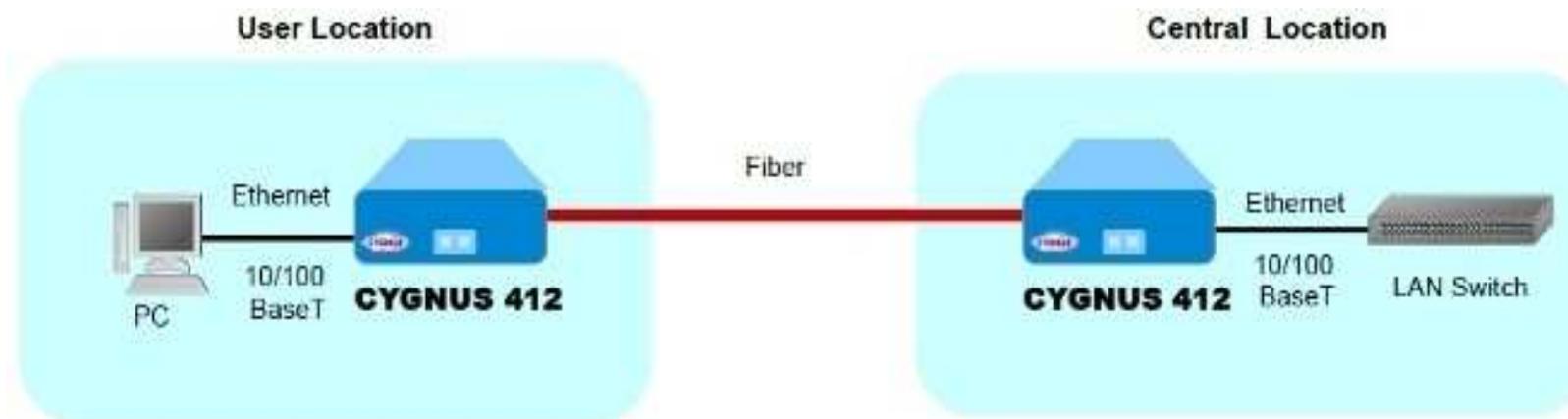
- CYGNUS 883 Multisignal RS232 port extender allows asynchronous RS232 port to be extended across fiber lines
- CYGNUS 883 multi-signal RS232 port allows up to 8 full duplex pairs of signals to be transported on fiber link
- 1500 V AC/DC isolation is provided between external power supply and RS232 port
- It support with two fiber interfaces: Main and Backup. The Backup Link acts as a hot standby for the Main Link, and takes over on failure of the Main Link.
- Driving range is up to 15 km on Single Mode Fiber, and 2 km on Multi-mode Fiber. fiber (ordering time option to support higher fiber distance)
- Fiber connector supported: Duplex SC or Bi-directional SC
- It support 230VAC, 24 VDC or 48 VDC power supply



CYGNUS 883 pair used to extend RS232 port of TCAS Radio equipment

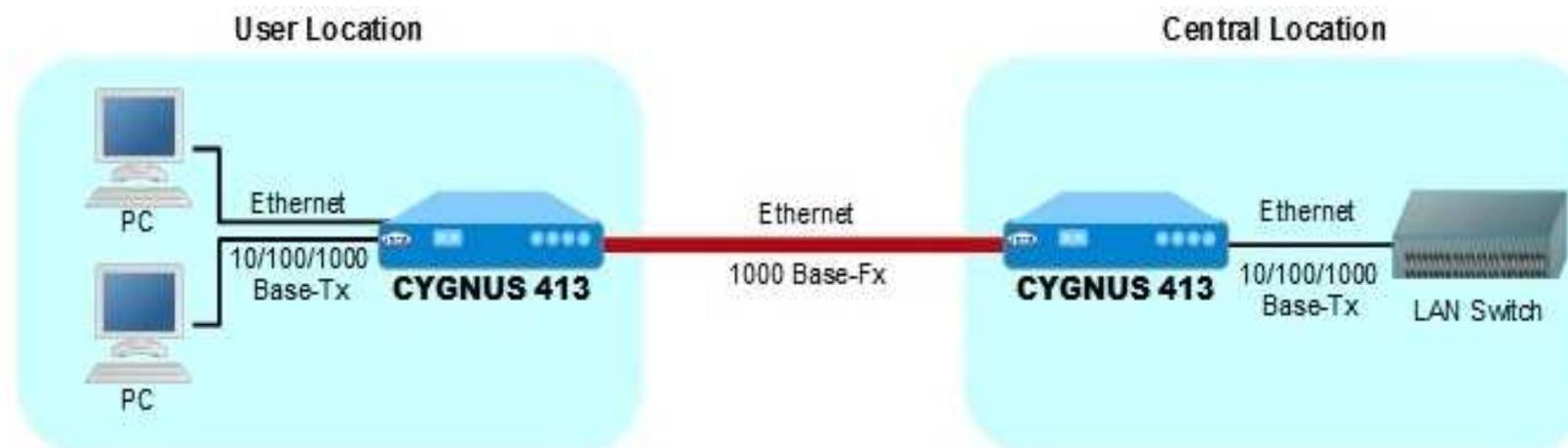
CYGNUS 412 Fast Ethernet to Fiber Media Converter

- CYGNUS 412 Fast Ethernet Media Converter used for extending Ethernet connection over fiber media
- CYGNUS 412 support one 10/100 Base-T Ethernet interface for connecting user device
- Support one 100 Base FX Fiber port with Bi-Di SC connector for connecting fiber line.
- Supports single mode and multimode fiber links (ordering time option)
- Driving range is up to 20 km on Single Mode Fiber (ordering option to support driving range upto 40 or 100 km)
- Supports 10/100Mbps operation with Auto Negotiation, Autosensing and Auto MDI/MDIX
- Compliant with IEEE 802.3 , 802.3u & 802.3x standards
- Power, Link, Activity and Speed LED indicators.
- Power supply: 5 VDC wall adaptor



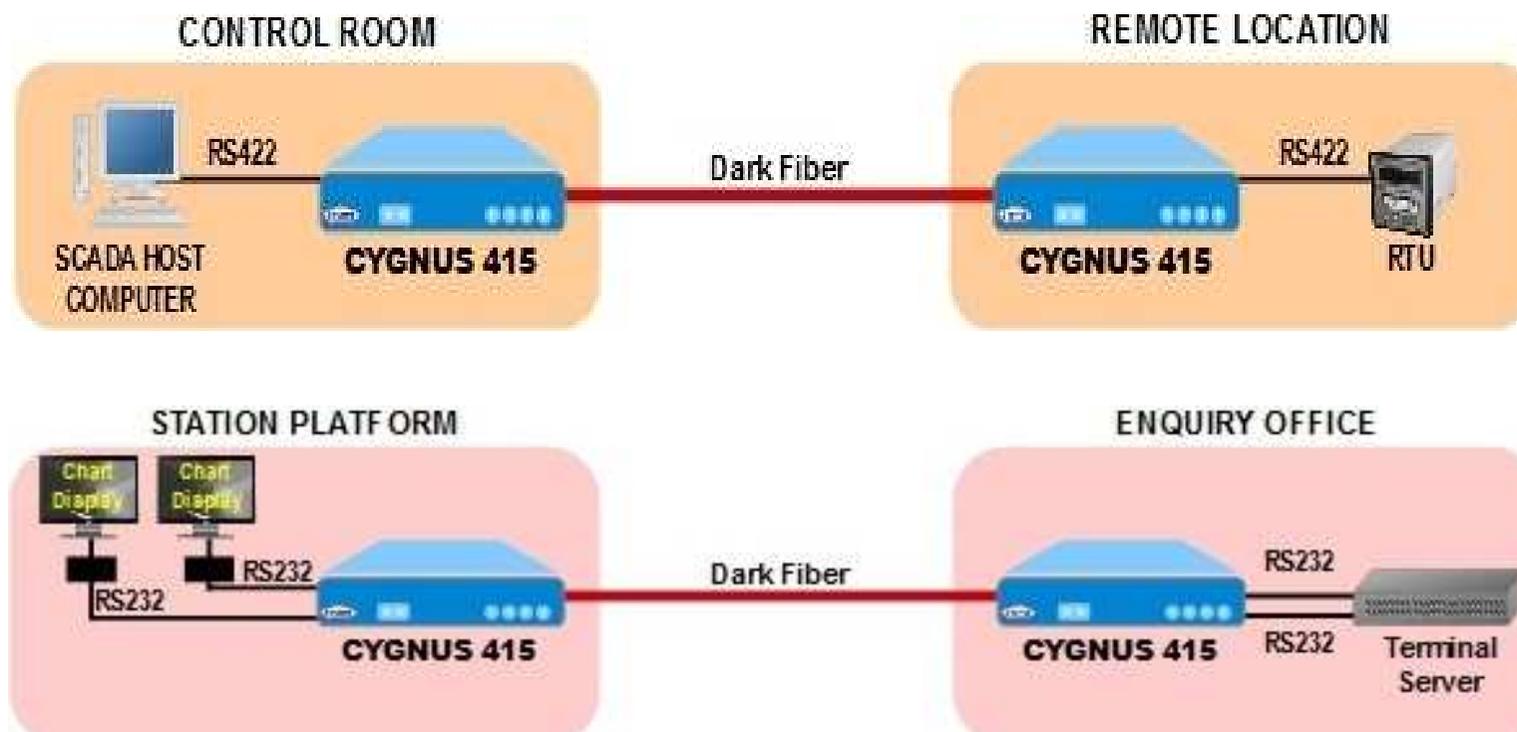
CYGNUS 413 Gigabit Ethernet Media Converter

- CYGNUS 413 Gigabit Ethernet Media Converter used for extending Ethernet connection over fiber media
- CYGNUS 413 support Two port of 10/100/1000 Base-T Ethernet interface for connecting user device
- Support one 1000Base -x Fiber port with Duplex SC connector for connecting fiber line.
- Driving range is up to 20 km on Single Mode Fiber
- Supports 10/100/1000 Mbps operation with Half or full Duplex operation, Auto Negotiation, Auto-sensing and Auto MDI/MDIX
- Compliant with IEEE 802.3 , 802.3u & 802.3x standards
- Power, Link, Activity and Speed LED indicators.
- Power supply: 5 VDC wall adaptor



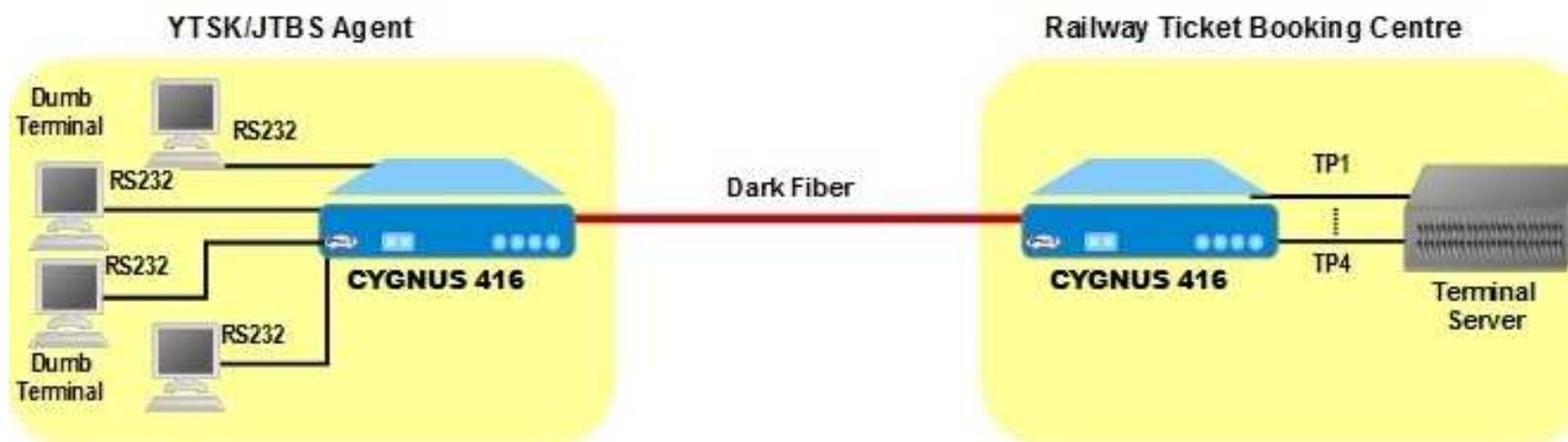
CYGNUS 415 2Port RS232/RS422 to Fiber Media Converter

- CYGNUS 415 RS232/RS422 Media converter is ideal for use in Railway Signaling, Industrial Automation, SCADA etc.
- CYGNUS 415 operates in pairs on a dedicated optical fiber link to transmit and receive asynchronous serial data from user port across the link
- Driving range: Upto 20 km on single mode optical fiber. Higher range available as an ordering time option
- User port interface can be RS422 or RS232. Ordering time option of one or two user ports.
- User port baud rate upto 230K. Automatic user data port speed handling
- Optional potential-free alarm contact provision which activates on unit power down or fiber link failure. This is a useful feature for critical applications such as Railway signaling. Front panel indicators for displaying unit status
- Power supply 230 VAC or 48 VDC or 24 VDC



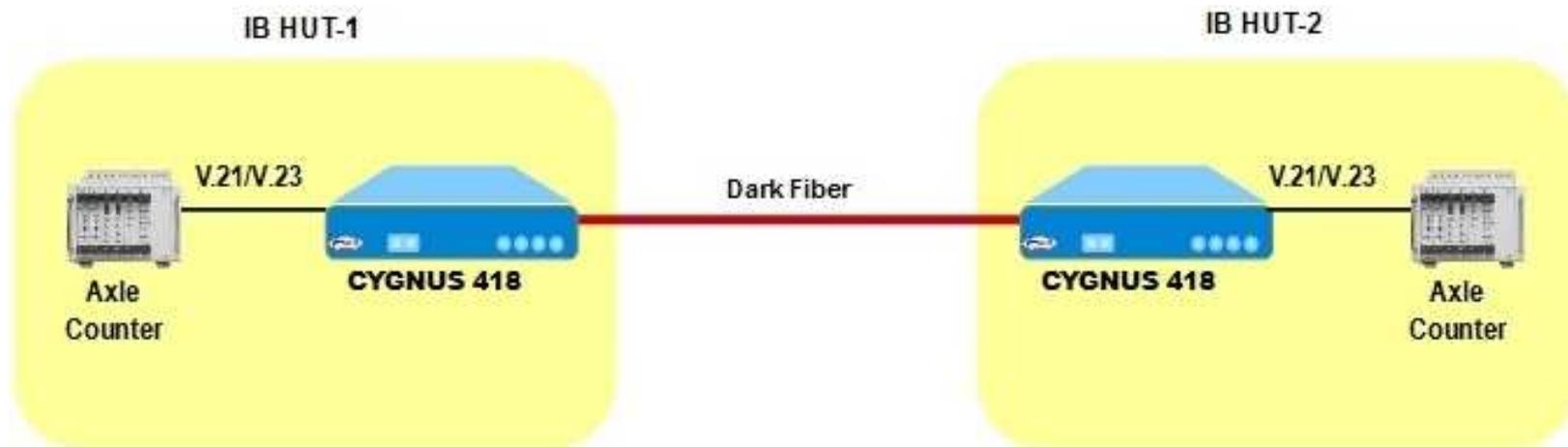
CYGNUS 416 4Port RS232 to Fiber Media Converter

- CYGNUS 416 RS232 Media converter is suitable for extending up to four RS232 ports from centrally located Terminal server to a remote site for using a fiber media.
- It is used for JTBS/YTSK agents to the network for PRS/UTS ticket booking in Indian Railways.
- CYGNUS 416 operates in pairs on a dedicated optical fiber link to multiplex Asynchronous Terminal Port data across the link
- Driving range: Upto 20 km on single mode optical fiber. Higher range available as an ordering time option
- Ordering time option of 2 Terminal Ports or 4 Terminal Ports. RS232 Terminal Port speed supports upto 230K
- Automatic Terminal Port data speed handling
- Loop back facilities for quick fault isolation. Front panel indicators for displaying unit status
- Power supply 230 VAC



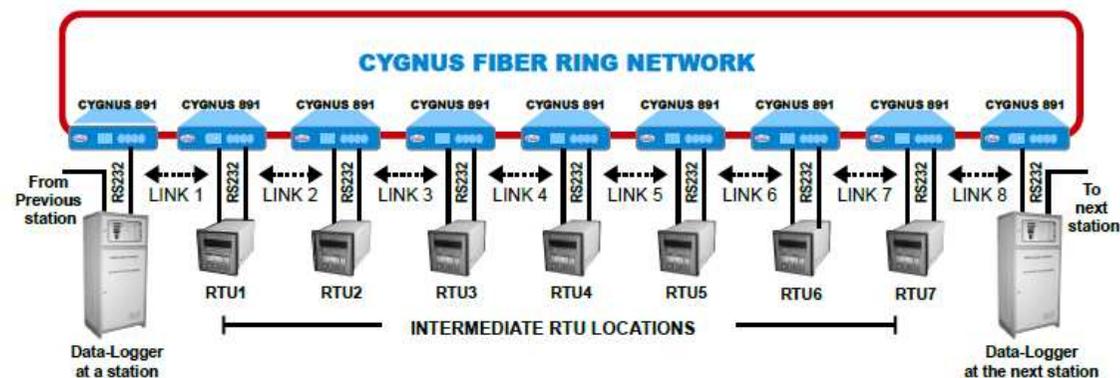
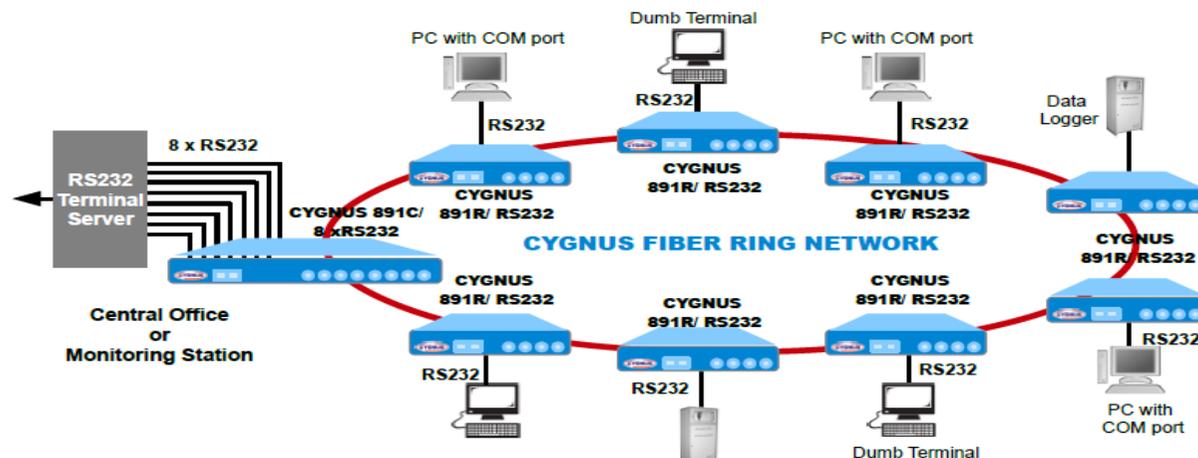
CYGNUS 418 FSK to Fiber Media Converter

- CYGNUS 418 FSK to Fiber Media converter is suitable for Axle counter interconnection application in IB section of Railway signaling.
- CYGNUS 418 operates in pairs on a dedicated optical fiber link to interconnect the analog modem interface across the link
- Driving range: Upto 20 km on single mode optical fiber. Higher range available as an ordering time option
- The analog FSK interface provided on the unit is compatible with ITU-T V.21/V.23 and allows transport of full-duplex voice band analog modem signals on 2 wires. Compatible with all standard Digital Axle Counters
- Power Supply options for 24 VDC or 48 VDC
- Front panel indicators for displaying unit status
- Manufactured using industrial temperature grade components.



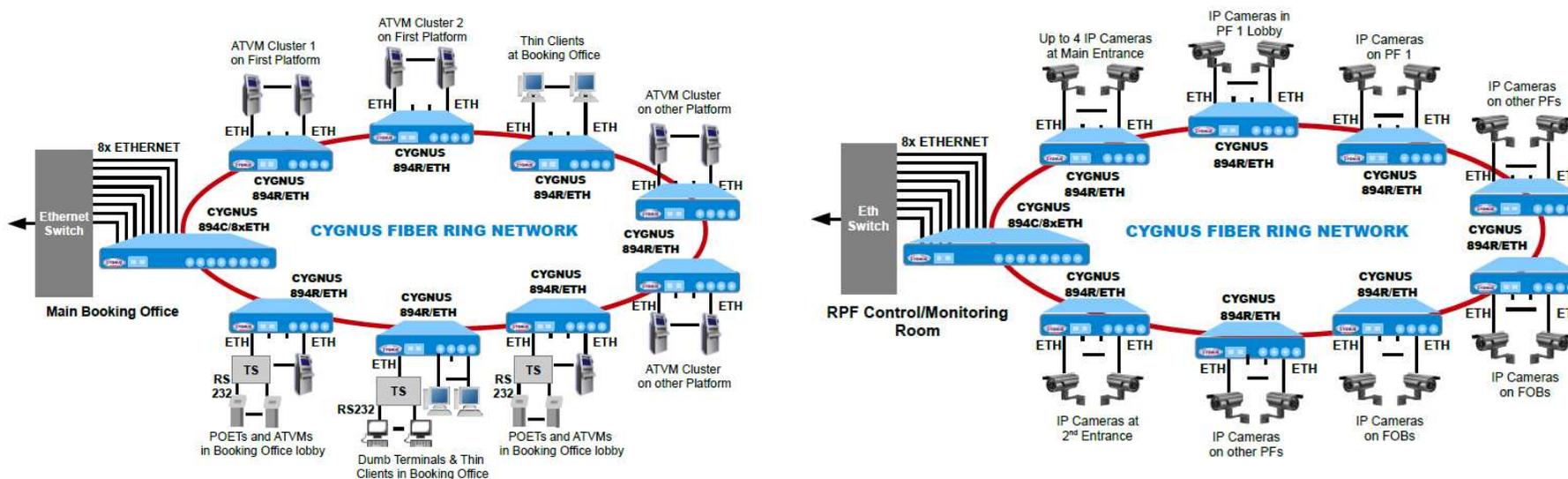
CYGNUS 891 Fiber Ring for RS232 devices

- Ideal for connecting RS232 devices over Fiber Optic Ring Media
- A Ring comprises of a CYGNUS 891C Central node and 8 CYGNUS 891R Remote nodes.
- Support DTE interfaces: RS485 (2-wire Multidrop) / RS422 (4-wire full duplex)
- Each node supports 2 fiber ports. Fiber interface support a single mode with SC connector.
- Fiber distance supported: Up to 20 km on Single Mode fiber (ordering time option to support distance up to 40 or 100 km)
- 230 VAC or 48 VDC is ordering time option
- Network is flexible as it can be add or remove nodes easily.



CYGNUS 894 Fiber Ring for Ethernet devices

- CYGNUS 894 is ideal for extending ports of a central Ethernet Switch to multiple remote locations in 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 8 CYGNUS 894R Remote nodes.
- Each node supports 2 fiber ports.
- Fiber port supports a single mode with SC connector.
- Fiber distance supported: Up to 20 km on Single Mode fiber (ordering time option to support distance up to 40 or 100 km)
- 230 VAC or 48 VDC is ordering time option
- Network is flexible as it can be add or remove nodes easily.





ISO 9001:2015 Certified Company

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