

CYGNUS 415

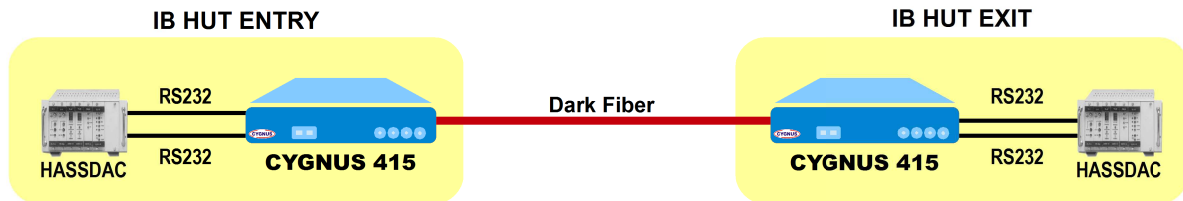
2-PORT RS232/RS422 MEDIA CONVERTER

FEATURES

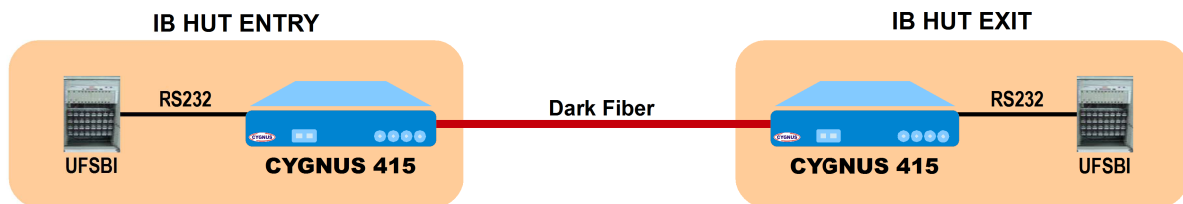
- Operates in pairs on a dedicated optical fiber link to transmit and receive asynchronous serial data from user port across the link
- Driving range: Up to 20 km on single mode optical fiber. Higher range available as an ordering time option
- Ordering time option of one or two user ports
- User port interface can be RS422 or RS232
- User port baud rate up to 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.
- Loop back diagnostic facilities for quick fault isolation
- Front panel indicators for displaying unit status
- Power supply - ordering time options: 230 VAC or 48 VDC or 24 VDC
- Ordering option for Industrial or commercial operating temperature range components
- Applications include Railway Signalling, Industrial Automation, SCADA etc.

TYPICAL APPLICATIONS

CYGNUS 415 used for Railway Signalling application

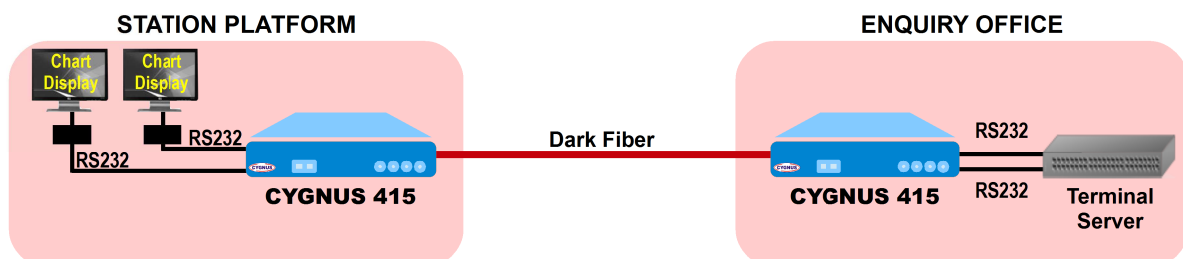


Interconnecting two High Availability Single Section Digital Axle Counters (HASSDAC) having 2xRS232 ports, over Dark Fiber



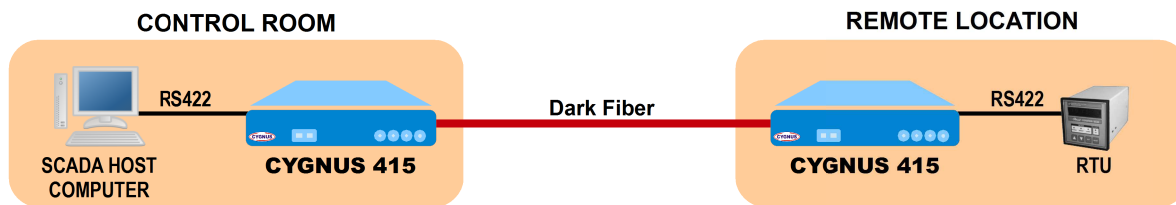
Interconnecting two Universal Fail Safe Block Instruments (UFSBI) having 1xRS232 port, over Dark Fiber

CYGNUS 415 used for Railway Passenger Chart Display at platforms



Extending passenger Reservation Chart displays from Enquiry office to Platform using Dark Fiber

CYGNUS 415 used for SCADA application



Extending Remote Terminal Unit (RTU) to SCADA Host Computer, using Dark Fiber

SPECIFICATIONS

OPTICAL FIBER PORT

Fiber Type:	Single mode
Range:	Up to 20 km on single mode. (Models with higher driving ranges on fiber are also available. Contact Cygnus for details)
Connector:	Ordering option for SC Duplex, SC Bi-Di, LC Duplex
Wavelength:	Bi-Directional operation: 1310 nm / 1550 nm
Mounting:	SFP (pluggable) 1x9 (fixed)

RS232/RS422 DTE PORTS

DTE port options:	RS232 or RS422 (Ordering time option)
No. of ports:	One or Two (Ordering time option)
Baud Rate:	Auto speed operation upto 230 kbps
Data Format:	Asynchronous
Connector:	9 Pin D-Sub (F)
Interface signals:	RS232: Transmit, Receive, DCD, DTR, DSR, RTS, CTS, Ground RS422: Transmit pair, Receiver pair, Ground

POTENTIAL FREE ALARM CONTACT

No. of contacts:	1
Functionality:	Activates on power down or fiber link down
Connector:	2-way screw type terminal block

DIAGNOSTICS AND LED INDICATORS

Diagnostic Switches:	Local Loop back; Digital Loop back; Remote Loop back Request
LED Indicators:	General: Power, Test Status Fiber related: Link Status, Alarm RS232 related: Data Activity, DTR RS422 related: Data Activity

GENERAL

Power input:	Ordering option for 230 VAC or 48/24 VDC
Operating Temperature Range:	Ordering option for commercial/industrial grade Indl grade temp range: -10°C to 70°C (DC power input); -5°C to 60°C (AC power input) Comm grade temp range: 0°C to 50°C
Humidity:	0 – 85% RH - non condensing

ORDERING INFORMATION

ORDER CODE: CYGNUS 415 A/B/C/D/E/F/G/H

- "A" specifies No. of DTE Ports
- "1TP" for One Port Model
 - "2TP" for Two Port Model
- "B" specifies the DTE interface required. Specify one of the following:
- "RS232" for RS232 async interface on 9-pin D-sub connector
 - "RS422" for RS422 async interface on 9-pin D-sub connector
- "C" specifies type of fiber transceiver mounting Specify one of the following:
- "SFP" for pluggable transceiver interface
 - "1x9" for fixed transceiver interface
- "D" specifies fiber connector type. Specify one of the following:
- "SC Bi-Di" for SC connector and Bi-Directional single fiber
 - "SC Duplex" for SC connector in duplex fiber mode
 - "LC Duplex" for LC connector in duplex fiber mode
- "E" specifies the fiber driving range on single mode fiber (in km). Standard model has driving range of 20 km. For higher driving ranges contact Cygnus, and specify accordingly
- "F" specifies input power supply option. Specify one of the following:
- "AC" for 230 VAC
 - "DC24" for 24 VDC
 - "DC48" for 48 VDC
- "G" Specifies the temperature range of the components used in the product - Industrial or Commercial
- "IND" for Industrial temperature range components
 - "COM" for commercial temperature range components
- "H" Specifies the requirement of Potential free alarm contact
- "ALRM" for model with Potential free alarm contact
 - Leave blank for model without Potential free alarm contact

Standard

Standard Model

CYGNUS 415/1TP/RS232/SFP/SC BiDi/20km/DC24/IND/ALRM

NOTE

Not all combination of options may be available simultaneously. Please check with Cygnus for availability before placing the order. Specifications are subject to change without notice

Ref.: 221122



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