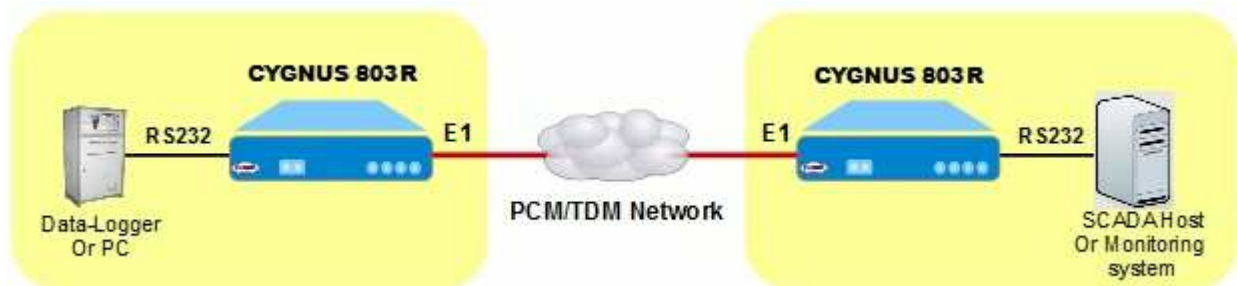# CYGNUS 803R
2 Mbps E1 to RS232 Converter

FEATURES

- 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 (accessible from a RS232 compatible console port) for configuration, monitoring and statistics reporting
- Built-in pattern generator and checker for qualitative and quantitative error performance monitoring of the E1 interface
- Front panel indicators for displaying unit status
- Ordering time options for CYGNUS 803R
  - Operating power supply: 230 VAC and/or -48VDC supply or both, or 24 VDC
  - Buzzer which sounds on the failure of the E1 link.

TYPICAL APPLICATION

TRANSMISSION OF RS232 DATA OVER A TELECOM NETWORK

SPECIFICATIONS

E1 PORT
Conformance:	ITU-T Rec. G.703, G.704, ITU-T G.823, HDB3 encoding
Speed:	2048 kbps
Impedance:	Balanced 120 ohm . Option: Unbalanced 75 ohm on BNC connector in lieu of, or in addition to balanced interface
Connector:	RJ-45
Frame format:	- Unframed - Framed, selectable as PCM 31 - FAS only, PCM 31C - FAS and CRC-4, PCM 30 - FAS and CAS or PCM 30C - FAS, CAS and CRC-4
Protection:	GD tube in shunt, current limiting device in series

DATA PORT
Conformance:	ITU-T V.24./RS232
Format:	**Asynchronous** : any character format.
Baud rate:	From 0 to 230.8 kbps, Auto selectable *Note: On a framed Nx64 kbps E1 link, the maximum RS232 baud rate will be Nx64/8 kbps subject to the above maximum*
Connector:	25 pin 'D' female connector
Protection:	+/-15KV ESD Protection (ESD),

CLOCKING OPTIONS
E1 Slave clock:	Master clock of the communication system is recovered from the signal received by the CYGNUS 803R unit on its E1 port
Internal clock:	An internal oscillator in the CYGNUS 803R generates the master clock of the communication system.

CONSOLE PORT
Conformance:	ITU-T V.24/RS232
Format:	Asynchronous; 8 data bits, 1 stop bit, no parity
Speed:	Selectable from 4.8, 9.6, 19.2, 38.4 or 57.6 kbps
Connector:	RJ45 Connector

DIAGNOSTICS
Local loopback, digital loopback, pattern generation and checking

FRONT PANEL INDICATORS
PWR:	Power ON	**E1 SLV:**	Unit is in E1 Slave mode
TST/DFLT:	A test is on, or unit is operating with default parameters	**PAT ERR:** **TXD:**	Pattern mismatch Data received from DTE
ALARM:	Alarm condition on E1 port	**RXD:**	Data sent to DTE
E1 LINK:	E1 link established	**DTR:**	DTE is ready
E1 ERR:	Error on E1 link		

BUZZER (Optional feature)
Resettable buzzer which sounds on failure of E1 link. Provision to shut off or disable the buzzer through a front panel switch.

GENERAL
Size: 220 mm (w) x 54 mm (h) x 212 mm (d)
Power: 230 VAC, 48VDC, or both or 24 VDC ordering time option
Operating Environment: 0-50°C. Up to 95% RH (non condensing)

ORDERING INFORMATION
Order Code: CYGNUS 803RX/Y/Z
X: E1 interface: Blank for 120 ohm interface; "E1-75" if both 75 and 120 ohm required
Y: Input power supply: Blank for AC power supply, otherwise "DC48" or "AC&DC" or "DC24"
Z: Buzzer: "BZR" if buzzer is required, else leave blank

Note: Specifications are subject to change without notice
Ref: 221122

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