CYGNUS CYGNUS 1021 **Terminal Server**

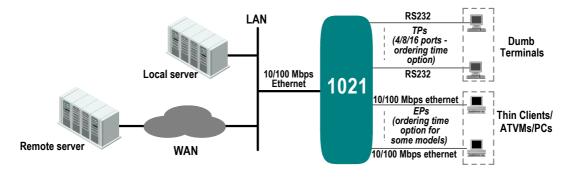
FEATURES

- Connects RS232 devices (e.g., Dumb Terminals) and (optionally) Ethernet devices (e.g., Thin Clients) to a core TCP/IP network
- Built-in functions to aid in PRS-UTS integration in Railway applications
- Features of asynchronous RS232 Terminal Ports (TPs) include:
 - 4/8/16 port models. 1500V isolation for increased robustness.
- Connection establishment using TELNET or RLOGIN
- Ability to have up to 8 simultaneous sessions, and to switch between these sessions without terminating any of them. In Railway ticketing this allows a counter to issue both PRS and UTS tickets.
- "Implicit" connection facility allows Terminal Ports to be automatically connected to specific applications at power on
- Separate Answer Back codes for each session enhance security
- Option of 8-port 10/100 Mbps Ethernet Switch on 8/16 port models
- User friendly menu-based supervisory port for easy configuration and quick deployment.
- Diagnostic and monitoring facilities include port level tests, statistics and status reports, and a comprehensive set of indicators.
- Support for centralised management through SNMP/Telnet.

CYGNUS 1021 is a Terminal Server which allows up to 16 RS232 devices to connect to a core TCP/IP network via a 10/100 Mbps Ethernet port. It supports standard protocols such as TELNET, RLOGIN for connection establishment, allows multiple connections to be established simultaneously, and supports Answer Back protection. It is available with 4, 8 or 16 RS232 Ports.

CYGNUS 1021 can also be (optionally) ordered with a built-in 8-port Ethernet Switch in addition to its RS232 ports. It then allows both Ethernet and RS232 devices to connect to the core TCP/IP network. There is no need for a separate Switch to connect Ethernet devices. The number of interconnecting cables, the number of power outlets, etc. is also reduced, simplifying operations. Training requirements and spares inventory are also reduced in this solution - making it very cost-effective.

For Railway ticketing applications CYGNUS 1021 has several features which make it ideal for connecting Dumb Terminals, Thin Clients, chart printers, ATVMs, Touch Screens, RAPID Controllers etc., to PRS/UTS Servers. It also tackles the problem of frequent RS232 port failure, by offering 1500 V AC Isolation protection on RS232 ports. Isolation increases the robustness of RS232 ports against surges caused by induction/coupling from OHT lines, or because of poor earthing, or because of bypassed UPS systems.



SPECIFICATIONS

<u>Terminal Ports (TPs)</u>		Management and Control of the Unit	
No. of ports	4, 8 or 16 (ordering time option)	Methods	By supervisory commands and/or via SNMP V1/V2
Compliance	Async RS232. Speed up to 230.4 kbps	Supervisory access	Menu based, password protected supervisory function
Isolation Protection	Up to 1500 V AC on all ports		accessed via Console Port or via Telnet over the network
Additional features	 "Implicit" connections between terminals and hosts 	Protocol Support	
	 Up to 8 simultaneous sessions per port 	TCP/IP protocols	TCP, IP, PPP, UDP, ICMP, IGMP, ARP, DHCP, BOOTP
	Separate Answer Back codes are programmable on	Routing protocols	Static Routing, RIP V1, RIP V2, OSPF
	per-session basis on each port	WAN protocols	PPP (Sync/async), LCP, IPCP, BCP, HDLC, SLIP,
	 Facility to send messages to Terminal Ports 	·	CSLIP
	 "Local" prompt on Terminal Ports 	Security & others	PAP, CHAP, RADIUS, NAT/NAPT, Telnet, FTP, Network
Connector	RJ 45 socket	·	Print Services
Ethernet Ports		Bridging	Auto learning, Spanning Tree algorithm based bridge
No. of ports	 1 (standard), or 	Indicators	
	• 8-port Switch in lieu of standard Ethernet Port	For each TP	Transmit, Receive
	(ordering time option - only for 8/16 TP models)	For each EP	Link, Activity
Compliance/	 10/100 M, IEEE 802.3u, Auto negotiation, Auto MDIX. 	<u>General</u>	
features	 IEEE 802.1Q port based VLAN (only in Switch option) 	Power	230 VAC +/- 15%; 50Hz +/- 5%
Connector	RJ 45 socket	Oper. environment	0-50 deg C, 5-95% RH (non condensing)
Parallel Printer Por	t (Ordering time option on 8 and 16 TP models only)	Size	19 inch rack mountable, 1 U height
No. of ports	1	Ordering Code: CYGNUS 1021/A/B/C	
Compliance	Centronics, PC compatible, on 25-pin D-type socket	A: Specify "4TP", "8TP" or "16TP" for 4, 8 or 16 RS232 Terminal Ports.	
Console Port		B: Specify "8EP" for built-in 8 port ethernet switch (8/16 TP models only)	
Character format	9600 bps, 8 bits, no parity	C: Specify "PP" for parallel Printer Port (8/16 TP models only)	
Compliance	Asynchronous RS232 on RJ 45 socket		
	-	Note: Specifications are subject to change without notice Ref.: 221122	
		·	



CYGNUS MICROSYSTEMS (P) LIMITED

93, IDA Phase II, Cherlapally, Hyderabad 500 051, India Tel: +91 (40) 2726 1327 URL: www.cygnusmicro.com e-mail: mktg@cygnusmicro.com ISO 9001:2015 Registered