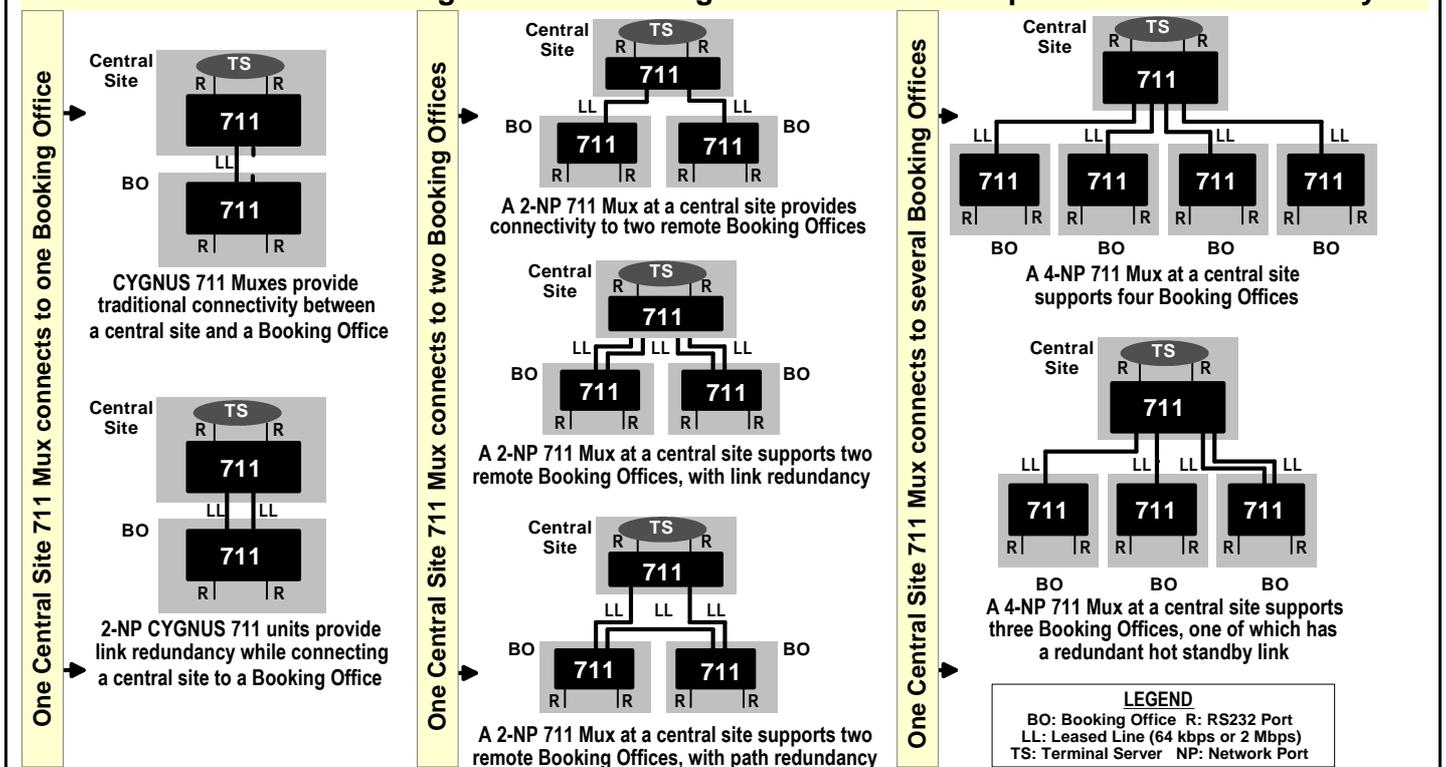# CYGNUS 711
Next Generation Multiplexer

FEATURES

- Allows RS232 ports to be extended from an upstream site to remote locations using one or more leased lines.
- Automatically corrects any errors in user port data caused during transmission on the leased line.
- Several cost-effective topologies possible. A single CYGNUS 711 unit at the upstream site can be shared by several remote sites. Topologies providing alternate paths can be configured, to provide continued connectivity to remote sites even if a leased line fails.
- Ordering time option for 4, 8 or 16 RS232 Terminal Ports (for connecting user devices), and 2 or 4 V.35 Network Ports (for connecting to leased lines via external modems).

- RS232 port speed from 1.2 kbps to 115.2 kbps. Leased line speed from 64 kbps to 2 Mbps.
- Very robust RS232 ports with built-in 1500 V AC isolation, which reduces the chances of RS232 port failure even at sites with poor quality power supply, poor earthing, or high levels of electrical noise and surges.
- Easy set up and installation. Standard topologies can be set just by setting DIP switches. Extensive set of status indicators., including Activity indicators for each Terminal Port and each Network Port.
- Ideal for replacing older Multiplexers in Railway's PRS/UTS network, and for extending Terminal Server ports from upstream sites to new booking offices for connecting Dumb Terminals there.

CYGNUS 711 ushers in a generational change for Statistical Multiplexer-based connectivity

One Central Site 711 Mux connects to one Booking Office

CYGNUS 711 Muxes provide traditional connectivity between a central site and a Booking Office

2-NP CYGNUS 711 units provide link redundancy while connecting a central site to a Booking Office

One Central Site 711 Mux connects to two Booking Offices

A 2-NP 711 Mux at a central site provides connectivity to two remote Booking Offices

A 2-NP 711 Mux at a central site supports two remote Booking Offices, with link redundancy

A 2-NP 711 Mux at a central site supports two remote Booking Offices, with path redundancy

One Central Site 711 Mux connects to several Booking Offices

A 4-NP 711 Mux at a central site supports four Booking Offices

A 4-NP 711 Mux at a central site supports three Booking Offices, one of which has a redundant hot standby link

LEGEND
BO: Booking Office R: RS232 Port
LL: Leased Line (64 kbps or 2 Mbps)
TS: Terminal Server NP: Network Port

SPECIFICATIONS

Terminal Ports (TPs)

No. of ports	4, 8 or 16 (ordering time option)
Compliance	Asynchronous RS232 with TxD, RxD, Ground; 1500 V AC isolation on each port; Speed 1.2 kbps to 115.2 kbps
Connector	RJ 45 socket

Console Port

Character format	9600 bps, 8 bits, no parity
Compliance	Asynchronous RS232
Connector	RJ 45 socket

Network Ports (NPs)

No .of ports	2 or 4 (ordering time option)
Compliance	Synchronous V.35; Speed 64 kbps-2 Mbps
Connector	25-pin D type Male; Modem cable supplied for each NP

Indicators

For each NP/TP	Transmit/Receive, Link (NPs only), CD (NPs only)
Others	Power, Default

Management and Control of the Unit

Methods	By switches, and by supervisory commands
Supervisory access	Menu based function accessible locally or remotely

General

Power	230 VAC nominal
Oper. environment	0-50 deg C, 5-95% RH (non condensing)

Ordering Code: CYGNUS 711/A/B
"A": Specify "4TP", "8TP" or "16 TP" for 4/8/16 RS 232 Ports
"B": Specify "2NP" or "4 NP" for 2/4 Network Ports
Note: (1) 4 Network Port version is available only with 8 or 16 TPs.
(2) Specifications are subject to change without notice   *Ref.: 221122*