

CYGNUS 605 G.703 - Sync/Async Converter

Q What is the function of CYGNUS 605 Converter?

A The CYGNUS 605 Converter provides interface conversion at 64 kbps between the V.35, V.24 or V.11 data interface and 64 kbps co-directional G.703 compatible PCM telecom interface.

Q What are the typical applications of the CYGNUS 605 Converter?

A The CYGNUS 605 Converter is typically used to connect networking equipment such as routers to PCM telecom equipment with 64 kbps G.703 compatible interface.

Q Which connectors on the CYGNUS 605 do I use to connect it to the PCM equipment?

A The RJ-11 socket or the 4-way terminal block on the back panel marked "G.703 Tx and Rx" can be used to connect the converter to PCM equipment.

Q Which connector on the CYGNUS 605 do I use to connect it to V.35 DTEs such as routers?

A The DTE's V.35 WAN cable should be connected to the 34 pin block type connector on the unit's back panel (the connector is marked "V.35 DTE").

Q What protection is provided against current and voltage surges on the G.703 interface of CYGNUS 605?

A Current limiting devices (PTCs) and GD tubes are provided.

Q What is the default clock mode in CYGNUS 605?

A G.703 Slave Clock mode. This clock mode is suitable for use when the clock is supplied by the PCM equipment connected to the unit's G.703 interface.

Q How do I know whether the G.703 interface of the CYGNUS 605 is properly connected to the PCM equipment?

A The G703 SYNC indicator is ON if the unit is properly connected to the PCM equipment.

Q If G703 SYNC indicator on the CYGNUS 605 is flashing, what does it indicate?

A It indicates failure of the G.703 link.

Q What diagnostic facilities are available in CYGNUS 605?

A V.35 loopback, G.703 loopback and Pattern generation and checking.

Q What is the function of U-links provided on the front panel of CYGNUS 605?

A They can be used to provide analog (Local & Remote) loopbacks (i.e., to connect the transmit to the receive) on the G.703 interface without removing the wires connected on the G.703 interface.

Q How do I test whether the end-to-end circuit is OK?

A Start Pattern Generation test from the local CYGNUS 605 unit. TST and ERR indicators should glow on this unit. Now give G.703 loopback from the remote end. With a properly working end-to-end link ERR indication on the local CYGNUS 605 unit should go off.