G703/64K Interface Converter

Version 1.1– Sept. 03

CV 0100

PCM ACCESS, CODIRECTIONAL CONVERTER

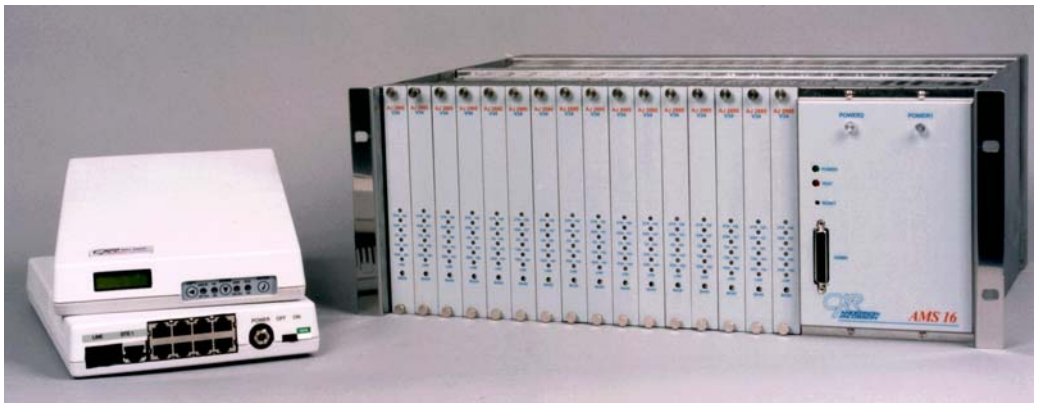
Features

- G703/ 64 kbps co-directional interface converter in X21 or V35 serial format
- G703 unframed transmission with the transparent transport of a 64 k synchronous signal
- Clock synchronisation from the line, internal, or the terminal.
- Analog and digital local loop test, remote loop test.
- Modem with short haul 300 m or long haul 1.6 km on 4 wires 64 kbps
- Plastic standalone version with external power supply 230 Vac
- Rack card version

The **CV0100** is a low cost interface converter that connects data equipment (router, bridge) to PCM networks.

The **CV0100** can be used to connect the conventional cross connect voice &data or to small microwave radio at 64 kbps.

The **CV0100** provides a transmission signal on the G703 line able to search 300m or 1,6 km. With a crossover cable 2 CV0100s could be used as an X21 or V35 synchronous line extension.



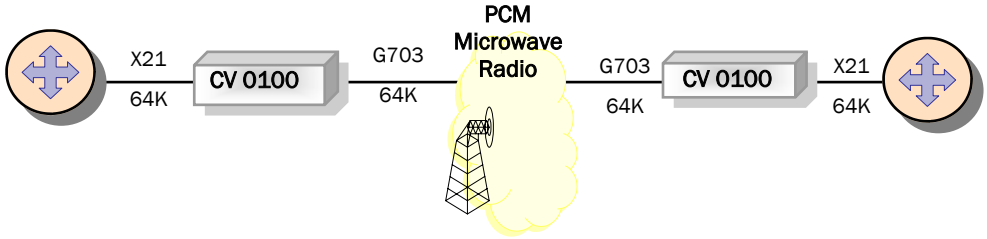
Easy to use the Setup parameters allow you to configure the **CV0100** to match your specific application by defining the clock source (internal, network clock or from the external terminal), the synchronization point (on the raising/ falling edge) and the ability to manage the CD/DSR/CTS interface signals.

The **CV 0100** is easy to configure. All settings will be selected via a set of switches located on the back panel of the unit.

Easy installation and network verification is accomplished through the use of analog and digital local loop test, remote loop test with insertion of 1s, alternating 1s and 0s, or PRBS test.

APPLICATIONS

Junction of X21 equipment to a WAN access G703 64 kbps



The **CV 0100** is used to provide a transparent interface conversion between routers, bridges, multiplexers or any type of equipment with X21 or V35 interface and a G703 64 kbps network. The clock of the network will be used for the synchronization of the router through the **CV 0100**.

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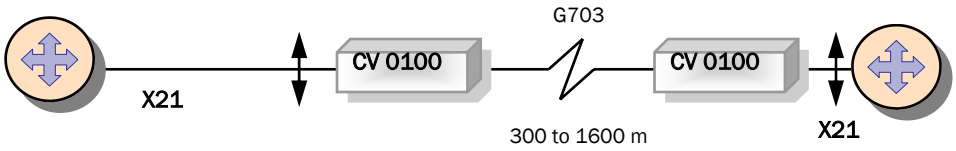
G703/64K Interface Converter

APPLICATIONS

64 kbps Access extension or interconnecting routers in a building or on a campus



By using two crossed copper pair with a maximum length of 1600 m, the **CV0100** will extend an X21 or V35 line within a building or across acampus.

TECHNICAL SPECIFICATIONS

Line Interface

- Physical : RJ45 symmetrical 120 ohms.
- Electrical : 64 kbps symmetrically balanced 4 wires.
- Line coding : AMI
- Unframed.

Data port

- Rate : 64 kbps.
- Clock source : G703 line, external terminal or internal in V35.
- DB25F connector on the back of the unit, compatible EIA/TIA 530 A.
- **CV0111** model: X21/V11 port delivered with a 2 meter cable and DB15F connector.
- **CV0135** model: V35 port delivered with a 2 meter cable and M/34F connector.

LED indicators

CARRIER LOSS if no signal detected on the line,

TEST : ON during the tests,

PRBS DET : ON during the detection of pseudo random sequence.

POWER : Power supply ON.

TXD and RXD : Send and Receive data activity.

Tests

Remote loop, local digital loop, local analog loop and to validate the G703 link generator / receiver of pseudo random sequence.

Models

- **CV0100PV** : Plastic with external power supply 230 Vac.
- **CV0100PR** : AMS4 or AMS16 Rack card.

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