

# Tahoe 235

G.703 (unframed) / V.35 (DCE) Converter

Tahoe 235 converter is equipped with one G.703 interface (2048 kbps, unframed) with RJ-45 connector and one V.35 interface with 34-pin Winchester connector.

Converter may be used to connect a device terminated with G.703 port to another device with a V.35 port. The V.35 port works as a DCE - like a modem, so it can be connected to a V.35 router. Integrated 128-bit buffer prevents errors caused by G.703 signal frequency instability (high jitter).

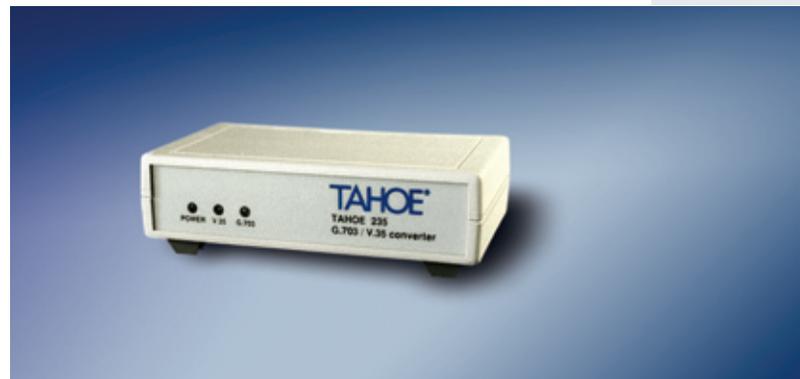
Three V.35 transmit data clocking sources can be selected:

- synchronized to the received G.703 stream (default)
- taken from internal 2.048 MHz generator
- taken from SCT(a)/SCT(b) pins on the V.35 interface (so called secondary timing - given by the DTE, e.g. a router)

Moreover, the user may select G.703 receiver sensitivity and range (i.e. the distance between converter and E1 line terminating device):

- short haul, -12 dB sensitivity, 50m range
- long haul, -43 dB sensitivity, 2000m range

The device is very small - only 100 mm x 60 mm x 30 mm - and the power consumption is also very low.



## Technical Details:

Throughput	2048 kbps, full-duplex
G.703 Interface	RJ-45 (balanced 120 $\Omega$ )
V.35 Interface	34-pin Winchester connector, female (DCE), conforming to ISO-2539
Range (distance between converter and E1 line terminating device)	50 m or 2000 m
Clocking source	from received G.703 stream, from internal generator, from DTE
Dimensions	100 mm (width) x 60 mm (length) x 30 mm (height)
Power Supply	external 100-240VAC/50-60Hz power supply included  optional 48 VDC power supply