

Abstract:

Multidirectional data transmission device.

The invention offers a data transmission device comprising two lines A and B through which digital data flow whose logic levels are defined for each line A or B by potentials taken off positive supply terminals Va or Vb and negative supply terminals Gnda and Gndb of said line A or B, and an interface module 100 which forms the link between the

5 lines A and B. The interface module 100 comprises two management devices, Ga and Gb, dedicated each to one transmission line A or B. The interface module 100 also comprises two devices called potential monitoring devices, Ca and Cb, each monitoring one transmission line A or B. Each monitoring device Ca or Cb has an input called control input INCA or INCB and comprises means for reproducing on the line it controls, A or B, a data defined by

10 a signal received on said control input INCA or INCB. Each management device Ga or Gb comprises means for permitting it to be disabled by the other management device Gb or Ga. Each management device Ga and Gb further comprises means for detecting on the line it is dedicated to, A or B, the presence of a data to be transmitted to the other line, B or A, respectively. Each management device Ga or Gb further comprises means for controlling the

15 disabling of the other management device, Gb or Ga, dedicated to the other line, B or A. Each management device Ga or Gb finally comprises defining means for defining for the monitoring device Cb or Ca the data it is to reproduce which has the potential of said other line B or A.

Applications: Interfaces in chip card readers.

Reference : Fig. 1.

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