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ABSTRACT:

Bi-directional signal transmission system and adapter for such a system.

A bi-directional signal transmission system comprises a bi-directional signal path with a low-impedance section coupled to a high-impedance section through a signal coupling for transmission of a binary signal in both directions; and adapting means for adapting the signal coupling under control of the signal itself, dependent on the transmission direction. I^2C-bus systems in particular benefit from the presence of the adapting means since communicating stations now can be located farther apart than was practical previously. In addition, the driving capability of the transmitting station is no longer a limiting factor.

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