

DIGITAL SERIAL DATA INTERFACING APPARATUS AND
DATA TRANSFER RATE SELECTION METHOD

ABSTRACT

An interfacing device in which speed negotiation can be correctly realized without the necessity of becoming conscious of the real operating speed capability. To this end, the interfacing device includes a speed negotiation processing block 12 for selecting the data transfer speed (operating speed), a speed signal detection block 3A whether or not data received from outside is a speed signal representing the transfer speed, and a speed signal transmission block 3B for transmitting a speed signal based on the information received from the speed negotiation processing block 12. When the speed signal detection block 3A has detected that an operating speed higher than an allowed maximum operating speed has been selected, the speed negotiation processing block 12 again performs negotiation processing as it lowers the maximum operating speed one step each time negotiation processing is performed once or plural times.

Figure 12