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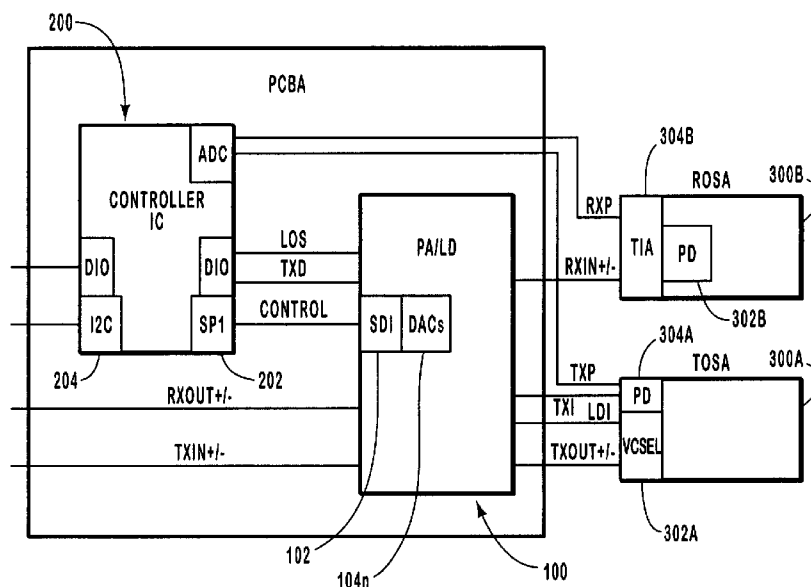
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(54) Title: TRANSCEIVER WITH PROGRAMMABLE SIGNAL PARAMETERS



(57) Abstract: An integrated post amplifier and laser driver assembly (302A, fig. 1) is provided that includes a digital control inter-
face (200, fig. 1) for communication with an external digital IC controller having a 12C bus configured to receive signal parameter
programming input from a user. The PA/LD (100, fig. 1) includes one or more DACs (104n, fig. 1) which communicate with the
digital control interface by way of a glue logic module. A memory is provided in the PA/LD that communicates with the DACs
by way of the glue logic module and stores an algorithm for facilitating implementation of changes to signal parameters of one or
more signals by way of the DACs. Signal parameter programming instructions are received at the PA/LD from a user by way of
the 12C bus and/or from the internally coded algorithm, and are used by the DACs to facilitate implementation of changes to signal
parameters of one or more signals.

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