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Brebner

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(54) **GIGABIT ROUTER ON A SINGLE PROGRAMMABLE LOGIC DEVICE**

(75) Inventor: **Gordon J. Brebner**, Monte Sereno, CA (US)

(73) Assignee: **Xilinx, Inc.**, San Jose, CA (US)

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(51) **Int. Cl.**⁷ **H03K 19/177**

(52) **U.S. Cl.** **326/41; 326/38; 326/39**

(58) **Field of Search** **326/37-41, 47**

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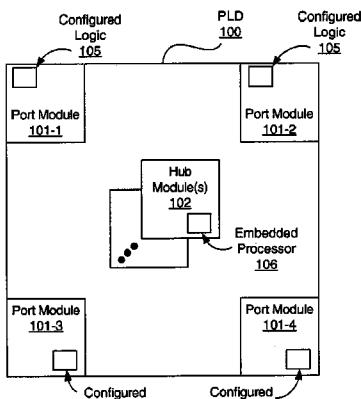
Primary Examiner—Anh Q. Tran

(74) *Attorney, Agent, or Firm*—W. Eric Webostad

(57) **ABSTRACT**

Apparatus for network and system on a single programmable logic device is described. The programmable logic includes port modules. The port modules have configurable logic configured to process communications for routing communications. The port modules are configured to the process communications for at least one of a plurality of protocols.

45 Claims, 16 Drawing Sheets



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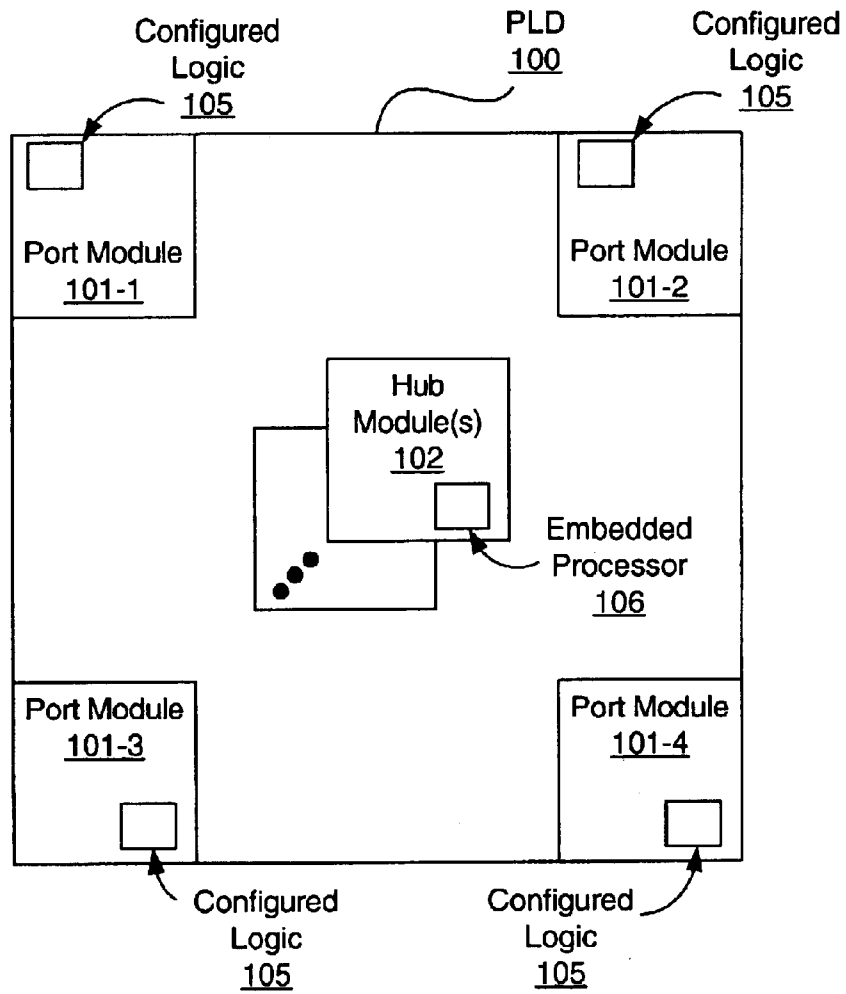


FIG. 1

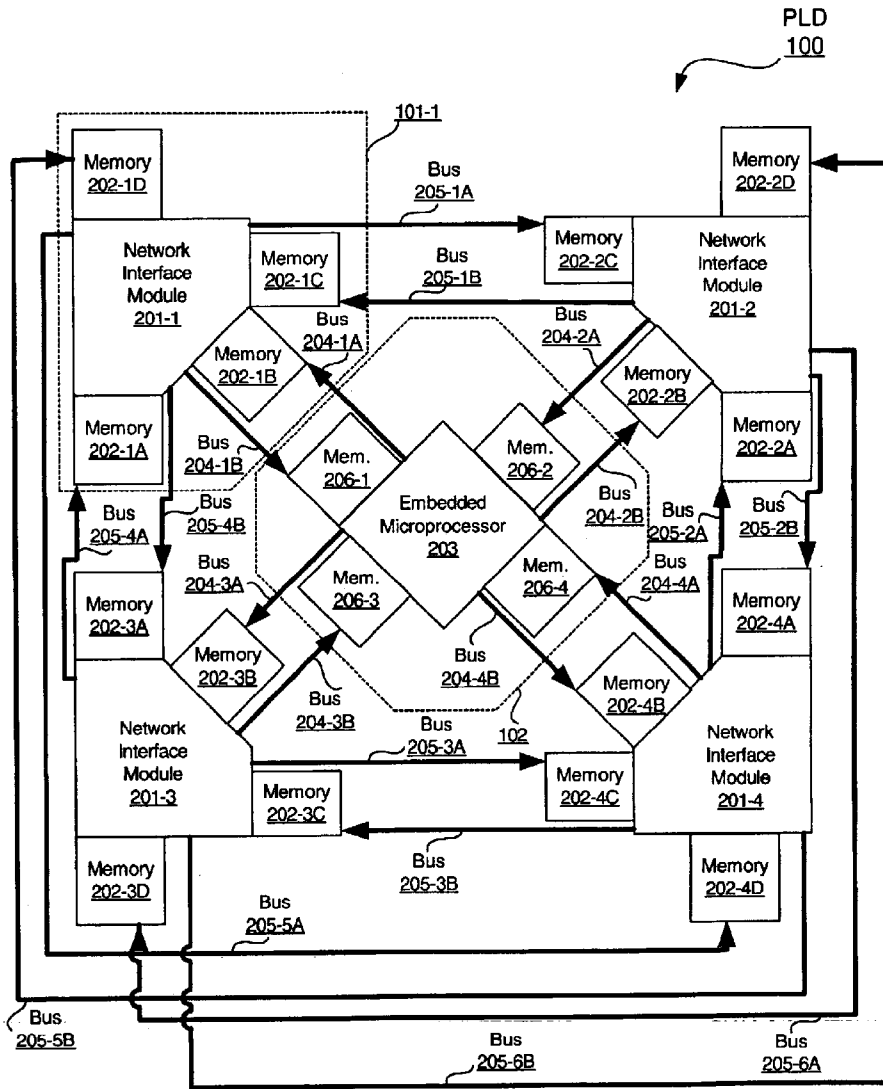


FIG. 2A

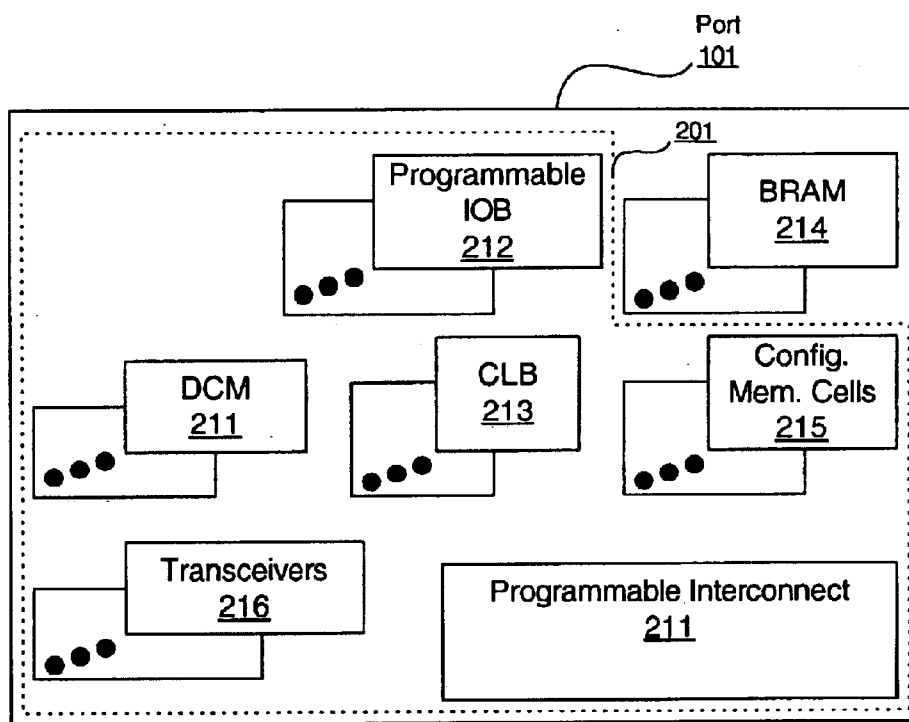


FIG. 2B

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