

ABSTRACT

A hub device is provided. The hub device includes a first memory, a second memory, and a hub controller. The first memory is configured to store queue setting information for
5 setting a plurality of software queues corresponding to a plurality of processors, and to store doorbell information generated based on the queue setting information and indicating statuses of the plurality of software queues. The second memory is configured to store tag information triggering operations of the plurality of
10 processors. The hub controller is configured to select a target processor from the plurality of processors upon request of a host, select a target queue from at least one software queue corresponding to the target processor, and support communication between the host and the target processor using the target queue.

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FIG. 3