RENESAS

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# Product Specifications of the Two-Port USB 3.0 Hub Controller, the uPD720211

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- Compliant with Universal Serial Bus 3.0 Specification, Revision 1.0, established by USB Implementers Forum, Inc.

- Supports the following USB data transfer speeds:
  Low-speed (1.5 Mbps), Full-speed (12 Mbps), High-speed (480 Mbps), Super-speed (5 Gbps)

- Two downstream ports

- Supports two VBUS control methods:
  Individual and gang control (VBUS switching, overcurrent detection)

- Supports compound device settings (hub products including functional devices).

- Supports external clock output (24/12 MHz).

- Low-power configuration enabling Energy Star compliance

- 3.3 V single power supply operation

- On-chip regulator for 3.3 V to 1.05 V conversions

- System clock: 24 MHz crystal oscillator or external clock input

- Supports external ROM.

- Allows setting of custom information for the customer system, including vendor ID, product ID, and UUID.
  Possible to avoid connection compatibility problems through future firmware upgrades.

- Reduced mounting area
  QFN package effectively reduces the mounting area, and pin assignments take into account actual wiring patterns.
  Mounting area and overall cost are reduced by on-chip integration of peripheral functions.

- Includes suspend state output function.

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