IGLOO2 HPMS

High Performance DMA (HPDMA) Configuration

Microsemi

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![Microsemi logo]

Configuration Options

The IGLOO2 High Performance DMA (HPDMA) module enables you to initiate transfers between the HPMS DDR or HPMS SMC slave at one end and eSRAM/eNVM (read only)/User Fabric Slaves at the other. For further details, refer to the IGLOO2 Silicon User's Guide.

Configuration

In order to use the HPDMA, you must use System Builder to build a System Builder block that includes the HPDMA.

From the Device Feature page of System Builder, check the HPMS High Performance DMA (HPDMA) checkbox as shown in Figure 1. No additional configuration of the HPDMA is required.
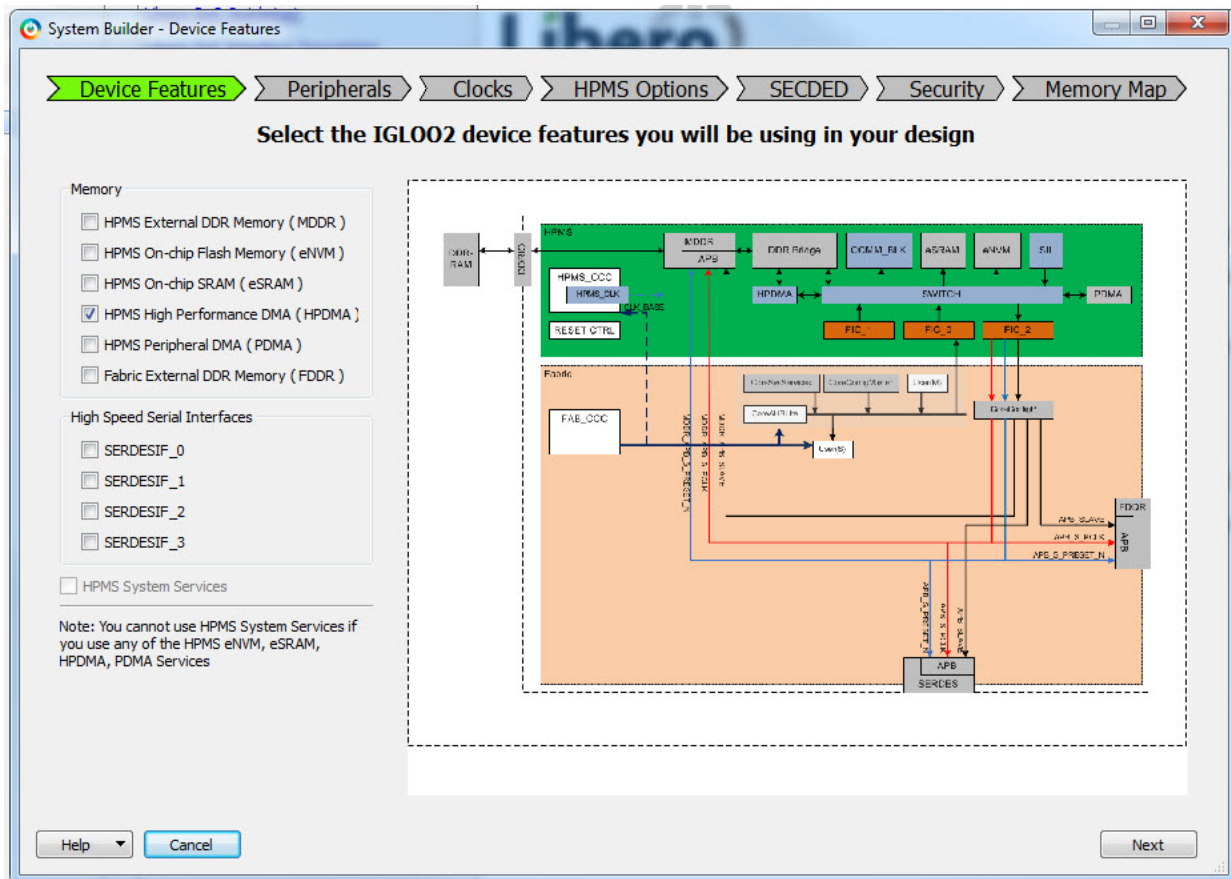
Figure 1 • **System Builder Device Features Tab**

System Builder builds a block that exposes a Fabric Master port at the top level. You must connect your Fabric AMBA Master to this port to access the PDMA Configuration registers. You may use the Fabric Master to configure Start Address, End Address, number of bytes to transfer, etc. (Figure 2).

Note: If you want a Fabric slave to participate in HPDMA transfers, you must add it to the HPMS FIC_0 or FIC_1 Master Subsystem on the Peripherals page of System Builder.
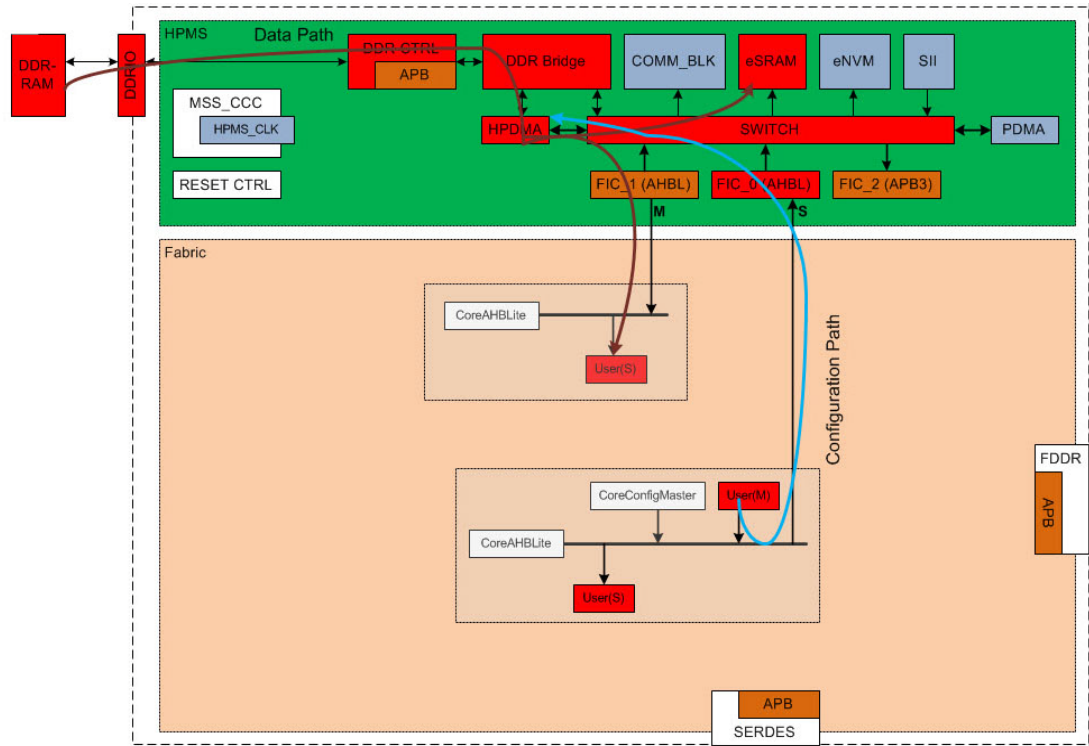
Figure 2 • **User Fabric Master Configuring HPDMA to Initiate Transfers between HPMS DDR, eSRAM and User Fabric Slave**

A – Product Support

Microsemi SoC Products Group backs its products with various support services, including Customer Service, Customer Technical Support Center, a website, electronic mail, and worldwide sales offices. This appendix contains information about contacting Microsemi SoC Products Group and using these support services.

Customer Service

Contact Customer Service for non-technical product support, such as product pricing, product upgrades, update information, order status, and authorization.

From North America, call 800.262.1060
From the rest of the world, call 650.318.4460
Fax, from anywhere in the world, 408.643.6913

Customer Technical Support Center

Microsemi SoC Products Group staffs its Customer Technical Support Center with highly skilled engineers who can help answer your hardware, software, and design questions about Microsemi SoC Products. The Customer Technical Support Center spends a great deal of time creating application notes, answers to common design cycle questions, documentation of known issues, and various FAQs. So, before you contact us, please visit our online resources. It is very likely we have already answered your questions.

Technical Support

Visit the Customer Support website (www.microsemi.com/soc/support/search/default.aspx) for more information and support. Many answers available on the searchable web resource include diagrams, illustrations, and links to other resources on the website.

Website

You can browse a variety of technical and non-technical information on the SoC home page, at www.microsemi.com/soc.

Contacting the Customer Technical Support Center

Highly skilled engineers staff the Technical Support Center. The Technical Support Center can be contacted by email or through the Microsemi SoC Products Group website.

Email

You can communicate your technical questions to our email address and receive answers back by email, fax, or phone. Also, if you have design problems, you can email your design files to receive assistance. We constantly monitor the email account throughout the day. When sending your request to us, please be sure to include your full name, company name, and your contact information for efficient processing of your request.

The technical support email address is soc_tech@microsemi.com.

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Outside the U.S.

Customers needing assistance outside the US time zones can either contact technical support via email (soc_tech@microsemi.com) or contact a local sales office. Sales office listings can be found at www.microsemi.com/soc/company/contact/default.aspx.

ITAR Technical Support

For technical support on RH and RT FPGAs that are regulated by International Traffic in Arms Regulations (ITAR), contact us via soc_tech_itar@microsemi.com. Alternatively, within My Cases, select **Yes** in the ITAR drop-down list. For a complete list of ITAR-regulated Microsemi FPGAs, visit the ITAR web page.

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