



RLDRAM® 2 Memory: Addressing Networking Memory Requirements

ISSI's RLDRAM 2 Memory is a reduced-latency DRAM that offers fast random access (20ns tRC), making RLDRAM ideal for communication applications ranging from access nodes to core routers.

Long-term Product Support

Product life-cycles of 10 years or greater are common for many applications targeted by RLDRAM. Thus, ensuring long-term support is critical when choosing a memory provider.

ISSI is committed to long-term product support. For example, ISSI still supports customers with 8Kx8 SRAMs which it has been offering since 1988. This commitment to long-term product support is a key reason why more and more customers are turning to ISSI for their memory needs.

Lower Power and Cost

RLDRAM is an ideal alternative to expensive, power-hungry Ternary Content Addressable Memories in lookup

table applications. Additionally, RLDRAM's large density provides the flexibility to accommodate ever expanding lookup tables.

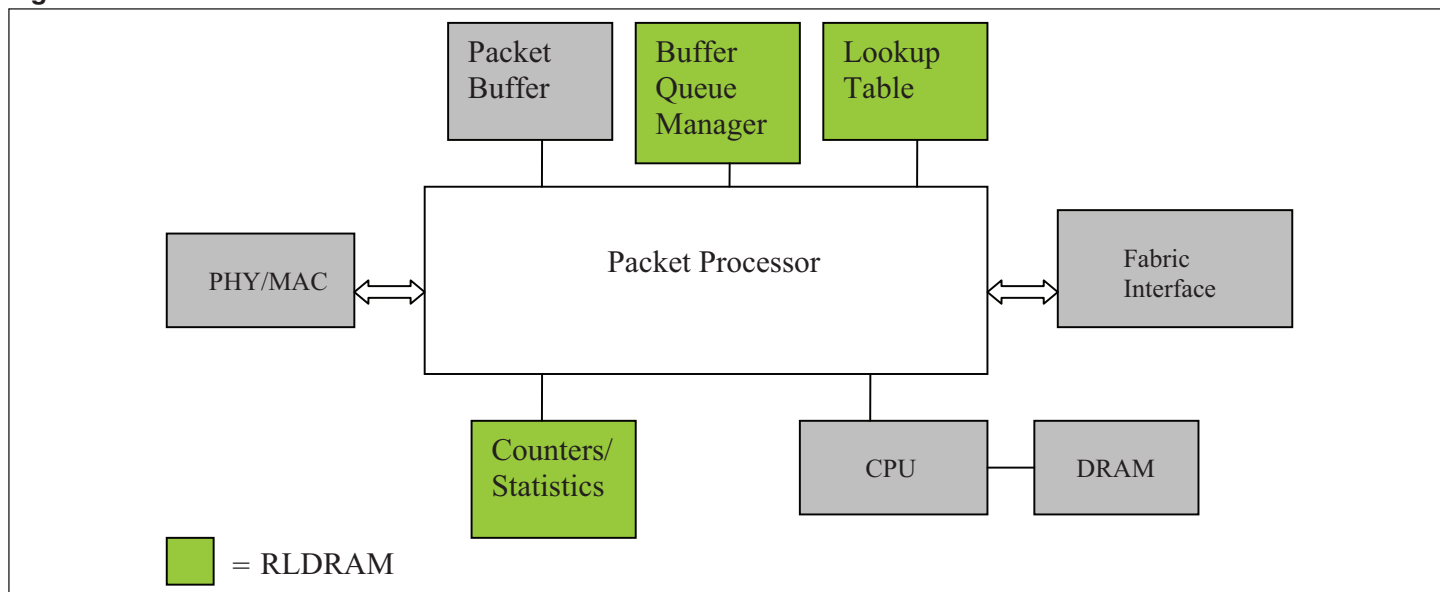
Multi-Purpose Line Card Memory

As seen in Figure 1, RLDRAM serves many purposes on a typical router line card: buffer queue management, lookup tables for routing packets, and maintaining counters for statistics. These functions require fast random access and low latency, which RLDRAM provides.

Applications:

- Access Nodes (PON OLT, DSLAM, CMTS, Wireless)
- Aggregation Nodes
- Enterprise Backbone Switches
- Metro Switches
- Packet Optical Transport
- Carrier Ethernet Switches and Routers (CESR)
- Core and Edge Routers

Figure 1. Router Line Card



Specifications

Density	Configurations	I/O	Clock Frequency	Row Cycle Time (tRC)
288Mb	8M x 36, 16M x 18, 32M x 9	Common, Separate	400MHz	20ns
576Mb	16M x 36, 32M x 18, 64M x 9	Common, Separate	400MHz	20ns

For more information on RLDRAM please email RLDRAM@issi.com.

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