ISSI® RLDRAM®, HPDRAM

ISSI's RLDRAM®2 memory is a reduced latency DRAM that offers fast random access making it ideal for communication applications ranging from access nodes to core routers.

RLDRAM®3 is a reduced latency memory that offers SRAM like random access times to enable 100G products such as high-end switches and routers.

► Features

Long Term Support

ISSI is committed to provide long-term support for all our low-latency, high-speed memory products (RLDRAM®2, RLDRAM®3, HPDRAM).

SRAM-like Random Access

RLDRAM®3 offers Multibank Write feature that allows random Read access every 2ns, on par with high-speed SRAM but the density and cost-effectiveness of a DRAM.

Lower Power and Cost

RLDRAM is an ideal alternative to expensive, power hungry TCAM for lookup applications. Additionally, RLDRAM's large density provides the flexibility to accommodate ever expanding lookup tables.

Flexible Manufacturing Support

ISSI supports high mix/low volume requirements.

► New Product Development

576Mb RLDRAM®2 at the highest speed grade (533MHz) in 45nm will be sampling in Q1/2015. 1Gb RLDRAM®2, 1Gb RLDRAM®3, and 2Gb HPDRAM are in development now.

► Product Offering

RLDRAM®2 (Reduced Latency DRAM 2)
- 288Mb, 576Mb
- x9, x18, x36
- trc = 15ns, 20ns
- Burst Length of 2, 4, 8
- Common and Separate I/O
- Commercial & Industrial Temperature support
- Target speed up to 400MHz (533MHz in Q1/2015)

RLDRAM®3 (Reduced Latency DRAM 3)
- 576Mb
- x18, x36
- trc = 8ns, 10ns, 12ns
- Burst Length of 2, 4, 8
- Commercial & Industrial Temperature support
- Target speed up to 1066MHz

HPDRAM (High Performance DRAM)
- 1Gb
- x18, x36
- trc = 13.75ns
- Burst Length of 2, 4
- Commercial & Industrial Temperature support
- Target speed up to 800MHz

► Applications
- Access Nodes (PON OLT, DSLAM, CMTS, Wireless) and Aggregation Nodes
- Data center Switches
- Metro Switches
- Packet Optical Transport
- Carrier Ethernet Switches and Routers
- Core and Edge Routers

High Speed Memory	288M	576M	1G	2G	4Gb
RLDRAM®2	🟩	🟩	🟦		
RLDRAM®3		🟩	🟧		
HPDRAM			🟩	🟧	🟦

Industrial/Automotive Temperature, Long Term Support, Leaded/Lead Free

STATUS 🟩 Production 🟧 Roadmap 🟦 Under Consideration