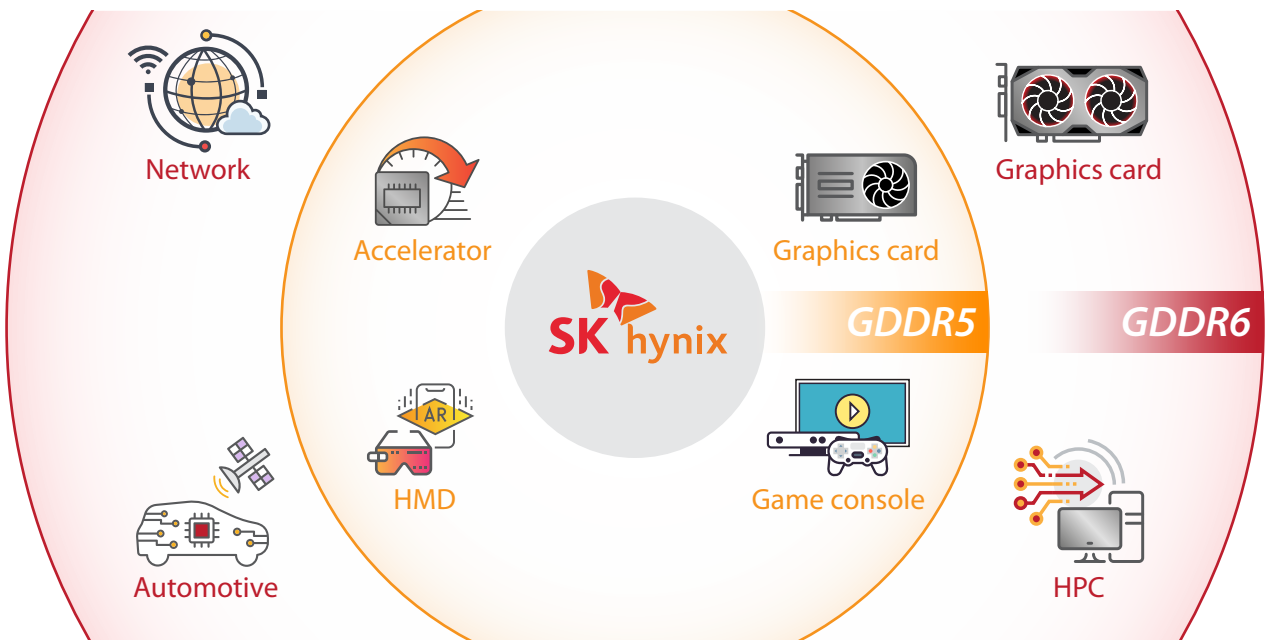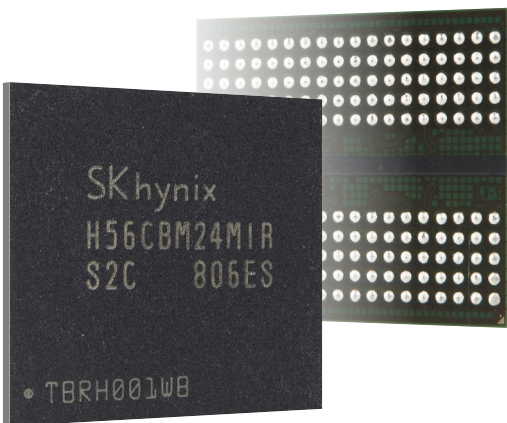# GDDR6

Making imagination reality at blazing speeds

Graphics Memory solutions for Visualization

The graphics evolution is to more realistic and natural images undistinguishable to real world with high performance hardware and software

Network
Accelerator
HMD
Automotive
Graphics card
GDDR5
Game console
Graphics card
GDDR6
HPC

Highlights of Specifications

SK hynix
H56CBM24MIR
S2C   806ES
• TBRH001WB

Density	8Gb ~ 16Gb
Data Rate	Up to 20Gbps
I/O Width	2-channel x16 / x8
Signaling	POD135 / POD125
Access Granularity	2-channel 32 Byte PC mode 64 Byte
Voltage	1.35V / 1.25V
Package	FBGA 180ball 14mm x 12mm

http://product.skhynix.com
www.linkedin.com/company/sk-hynix

SK hynix

Key values

x2.5 bandwidth of GDDR5

Enables faster speeds
for high-performance computing (HPC)
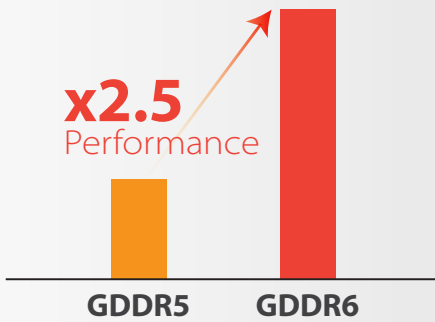and gaming applications

x2.5
Performance

GDDR5   GDDR6

Higher energy efficiency

For the same size of data transferred,
saves 15-20% energy per unit data compared to GDDR5

20% Save

GDDR5   GDDR6

High
Power
Efficiency

High
Bandwidth

6

Optimized
board design

Optimized board design

· Utilizes same board size as GDDR5 (12mm x 14mm)
· Equips a dedicated memory implementation scheme
  and PCB board design

Innovative Channel Feature

2 Channel Mode

· 32-Byte Access per Channel
· TWO independent GDDR6
  Performance

SK hynix

GDDR6

PC Channel Mode

· 64-Byte Access per Channel
· 16n pre-fetch GDDR5 performance

SK hynix