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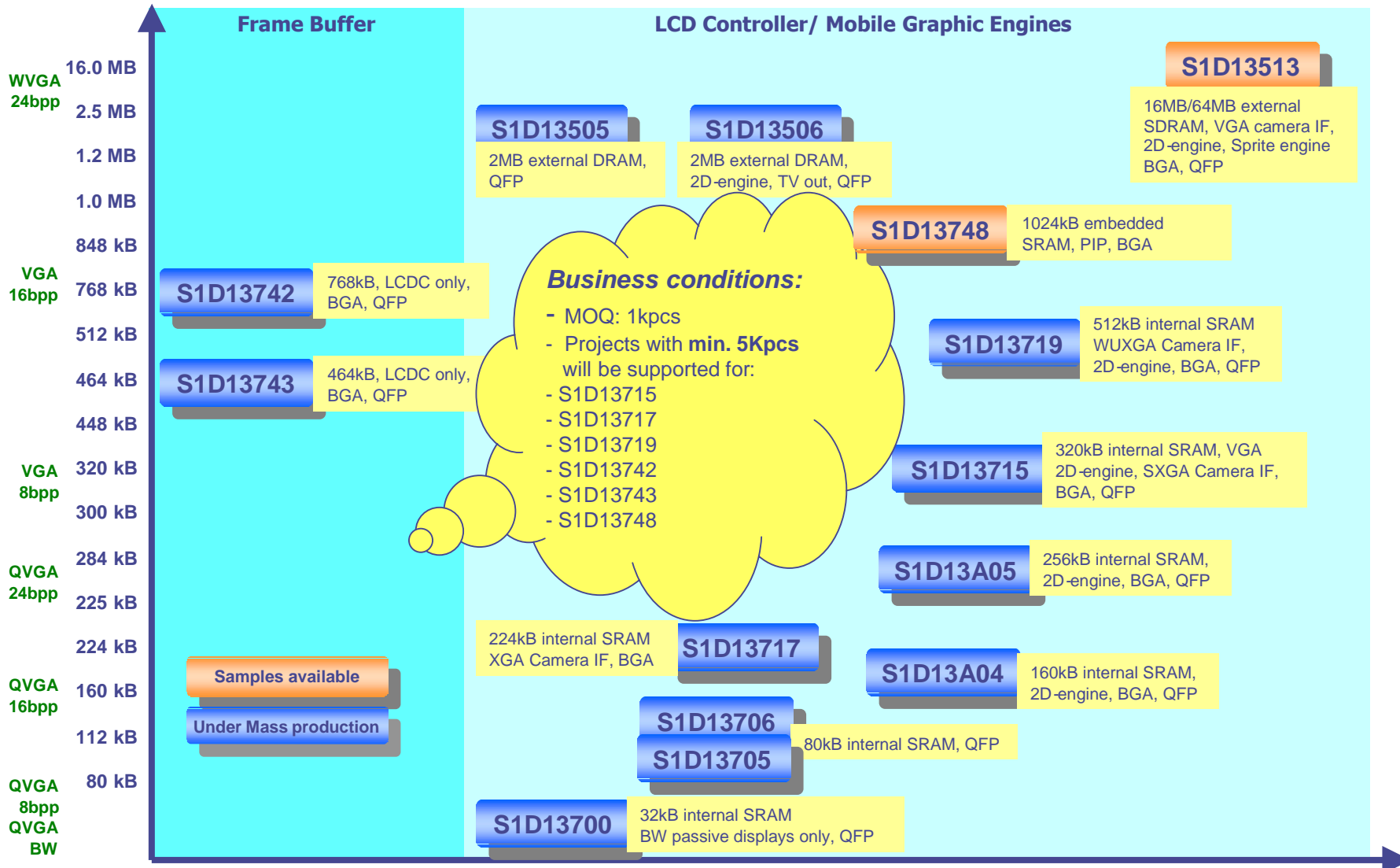4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets".
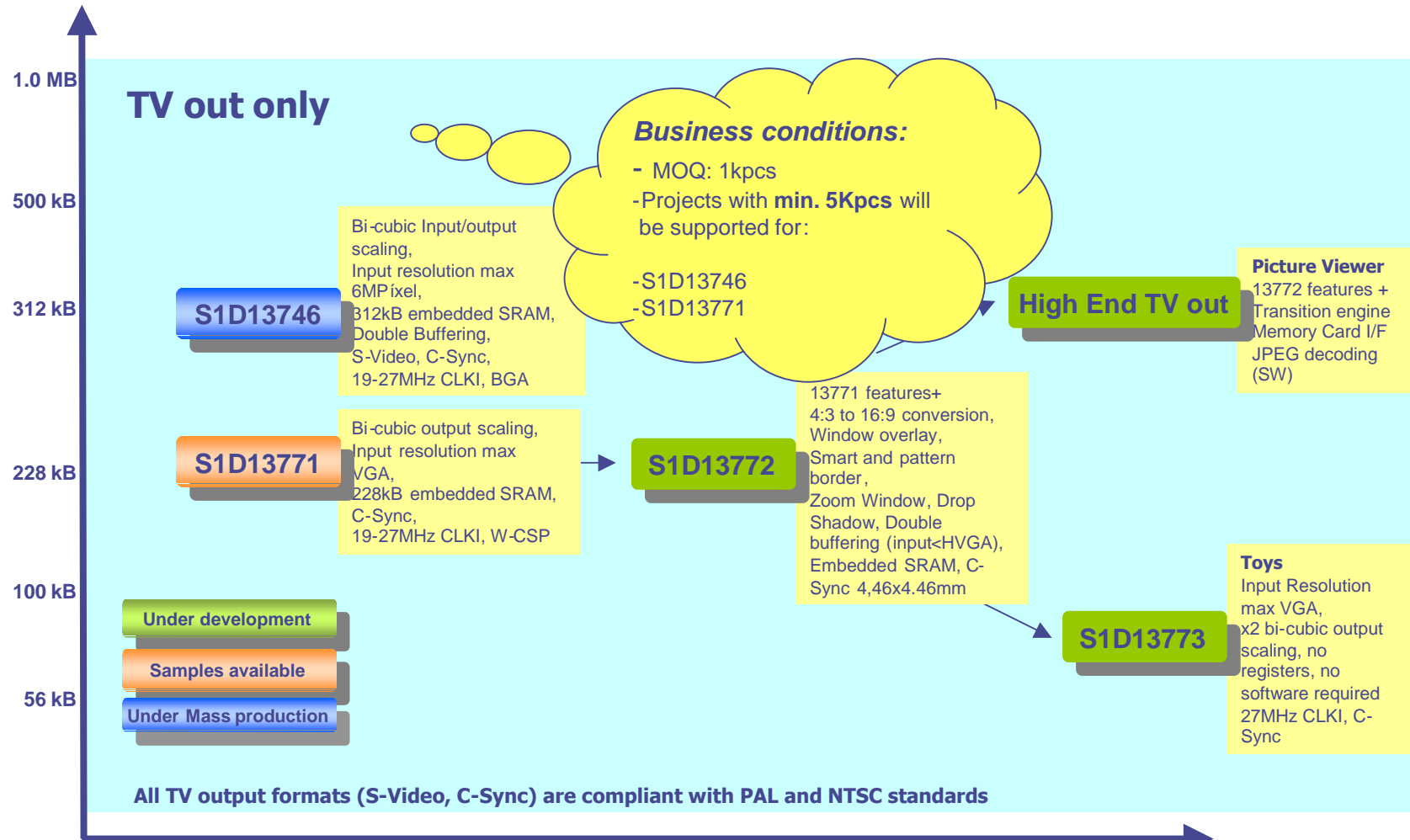
Graphic Controller Roadmaps
January 2007

LCD Controller/ Mobile Graphics Engines Product Roadmap

Frame Buffer

LCD Controller/ Mobile Graphic Engines

WVGA 24bpp	16.0 MB
	2.5 MB
	1.2 MB
	1.0 MB
	848 kB
VGA 16bpp	768 kB
	512 kB
	464 kB
	448 kB
VGA 8bpp	320 kB
	300 kB
QVGA 24bpp	284 kB
	225 kB
	224 kB
QVGA 16bpp	160 kB
	112 kB
QVGA 8bpp QVGA BW	80 kB

S1D13513 — 16MB/64MB external SDRAM, VGA camera IF, 2D-engine, Sprite engine BGA, QFP

S1D13505 — 2MB external DRAM, QFP

S1D13506 — 2MB external DRAM, 2D-engine, TV out, QFP

S1D13748 — 1024kB embedded SRAM, PIP, BGA

S1D13742 — 768kB, LCDC only, BGA, QFP

S1D13743 — 464kB, LCDC only, BGA, QFP

S1D13719 — 512kB internal SRAM WUXGA Camera IF, 2D-engine, BGA, QFP

S1D13715 — 320kB internal SRAM, VGA 2D-engine, SXGA Camera IF, BGA, QFP

S1D13A05 — 256kB internal SRAM, 2D-engine, BGA, QFP

S1D13717 — 224kB internal SRAM XGA Camera IF, BGA

S1D13A04 — 160kB internal SRAM, 2D-engine, BGA, QFP

S1D13706

S1D13705 — 80kB internal SRAM, QFP

S1D13700 — 32kB internal SRAM BW passive displays only, QFP

Samples available

Under Mass production

Business conditions:
- MOQ: 1kpcs
- Projects with **min. 5Kpcs** will be supported for:
  - S1D13715
  - S1D13717
  - S1D13719
  - S1D13742
  - S1D13743
  - S1D13748

TV out solutions – Product roadmap

TV out only

1.0 MB

500 kB

Business conditions:

- MOQ: 1kpcs
- Projects with **min. 5Kpcs** will be supported for:

  - S1D13746
  - S1D13771

312 kB

Bi-cubic Input/output scaling,
Input resolution max 6MPíxel,
312kB embedded SRAM,
Double Buffering,
S-Video, C-Sync,
19-27MHz CLKI, BGA

S1D13746

High End TV out

Picture Viewer
13772 features +
Transition engine
Memory Card I/F
JPEG decoding
(SW)

228 kB

S1D13771

Bi-cubic output scaling,
Input resolution max VGA,
228kB embedded SRAM,
C-Sync,
19-27MHz CLKI, W-CSP

S1D13772

13771 features+
4:3 to 16:9 conversion,
Window overlay,
Smart and pattern border ,
Zoom Window, Drop Shadow, Double buffering (input<HVGA),
Embedded SRAM, C-Sync 4,46x4.46mm

100 kB

Under development

Samples available

Under Mass production

56 kB

S1D13773

Toys
Input Resolution max VGA,
x2 bi-cubic output scaling, no registers, no software required
27MHz CLKI, C-Sync

All TV output formats (S-Video, C-Sync) are compliant with PAL and NTSC standards

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List of available evaluation boards

Model	Evaluation Board Product Code	Description / Notes
S1D13700	S5U13700P00C000 + S5U13000P00C000	EVA board for S1D13700 + PCMCIA adapter, plugs into PCMCIA slot
S1D13705	S5U13706P00C000	No EVA board available. EVA board for S1D13706 (compatible with S1D13705) can be used, plugs into PCI slot of PC.
S1D13706	S5U13706P00C000	EVA board for S1D13706, plugs into PCI slot of PC
S1D13715	S5U13714P00C000	No EVA board available. EVA board for S1D13714 (compatible with S1D13715) can be used, plugs into PCMCIA slot.
S1D13717	S5U13714P00C000	No EVA board available. EVA board for S1D13714 (compatible with S1D13717) can be used, plugs into PCMCIA slot.
S1D13719	S5U13714P00C000	No EVA board available. EVA board for S1D13714 (compatible with S1D13719) can be used, plugs into PCMCIA slot.
S1D13742		No EVA board available
S1D13743		No EVA board available
S1D13748		No EVA board available
S1D13A04	S5U13A05P00C100	No EVA board available. EVA board for S1D13A05 (compatible with S1D13A04) can be used, plugs into PCI slot of PC.
S1D13A05	S5U13A05P00C100	EVA board for S1D13A05, plugs into PCI slot of PC
S1D13505	S5U13506P00C100	No EVA board available. EVA board for S1D13506 (compatible with S1D13505) can be used.
S1D13506	S5U13506P00C100	EVA board for S1D13506, plugs into PCI slot of PC
S1D13513	S5U13513P00C100	EVA board for S1D13513, Stand-alone board
S1D13746		No EVA board available
S1D13771		No EVA board available

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Thank you !

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