



團隊・熱誠・專業

MStar
semiconductor

MStar Semiconductor

● Teamwork - 以人為本、團隊合作 ● Enthusiasm - 誠摯服務、重視承諾 ● Expertise - 專業行銷、經營亞太

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semiconductor



品佳股份有限公司

Company Profile

- **MStar Semiconductor** is a dedicated mixed signal and display IC design house located in Hsinchu Taiwan
- **Team:** More than 30 mixed signal designers with key team members from mixed signal design group of TI, Dallas
- **History:** The design team joined System General from TSMC in 2002, then spun off from SG company in 5/02 to form MStar
- **Products:** Flat Panel Display IC ,Mixed Signal ASIC
- **Finance:** Capital NT\$175M
- **Revenue:** Y2002 NT\$280M
Y2003 NT\$720M(Plan)

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Product Family



ADC only

110-205 MHz



LCD

All in One controller



TV / Video

LCD TV Controller
Video decoder
De-interlace
HDTV



Mixed Signal ASIC IC

**Mixed Signal
SOC IC design**

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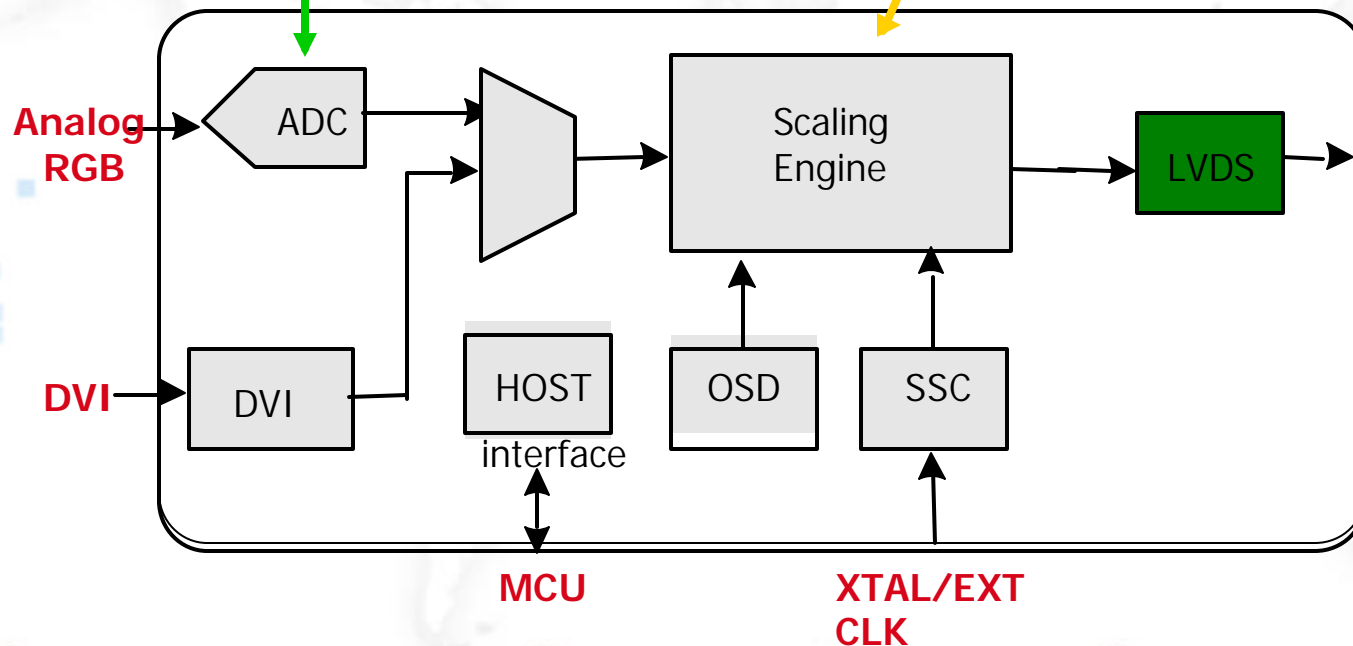
MStar Product Lineup

ADC

- SG9884A-110
- SG9884A-140
- MST9883-110
- MST9883-140
- MST9888-170
- MST9888-205

Single Chip

- MST9010S (XGA)
- MST9015S (XGA)
- MST9111 (SXGA)
- MST9131 (SXGA)
- MST9151 (SXGA)
- MST8016 (XGA)
- MST8036 (XGA)



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Single-Chip Product Lineup



MST9xxx

Header

Resolution

Input

Output

MST 9 0 : XGA
 1 : SXGA

1 : ADC
2 : DVI(TMDS)
3 : DUAL
4 : ADC*2
5 : ADC*2 + DVI

0 : TTL w/o Tcon
1 : LVDS w/o Tcon
5 : TTL w/ Tcon
6 : RSDS w/ Tcon

MST 8 new RSDS/LVDS serie

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ADC(A/D Converter) Key Features

- **110 MSPS/140 MSPS Maximum Conversion Sampling Rate**
- **Integrated 5-bit pixel clock phase adjustment**
- **Integrated clamp with timing generator**
- **Integrated Brightness & Contrast controls**
- **Full Sync Processing**
- **Mid-scale Clamping**
- **Pin compatible with AD9883A/AD9884A**

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Single Chip Key Features

- ADC up to 135MHz (SXGA)
- DVI 1.0 compliant up to 1.65GHz
- LVDS TX up to 700MHz, measured Jitter < 100ps
- RSDS Panel support with timing controller
- Integrated 7414, Integrated DDC
- Low EMI with Spread Spectrum Clocking
- Multi-color OSD supported (16 colors)
- sRGB support (compliant with Microsoft)
- Lowest standby power < 0.05W (SOG supported)
- 128 pin QFP package -> Small board size
- Shared firmware and hardware between 15" and 17", analog and dual models

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Commitment

- ❖ Superior Quality
- ❖ Superior Service
- ❖ Constant Innovation
- ❖ Long Term Partnership
- ❖ Price Competitive

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