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Data Conversion

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► APPLICATIONS :

- **Instrumentation** : DSO, ATE, high-speed data acquisition, high energy physics, direct signal synthesis, signal analysis.
- **Digital transceiver** : radar, counter measures, EW missiles, satellites, jammer.
- **Wireless communication** : for high IF, broadband digital transceivers in satellite and ground equipments.
- **Radiation tolerant applications** : cumulative total dose >150 Krad (Si) measured.

► TECHNOLOGIES :

- Based on strategic alliances with major semiconductor companies (ST-Microelectronics, Siemens), TCS is offering the adequate technology from high speed bipolar to low power BiCMOS.
- Radiation tolerant oriented design for space

environment.

► The TCS ASSP* approach : G'core family

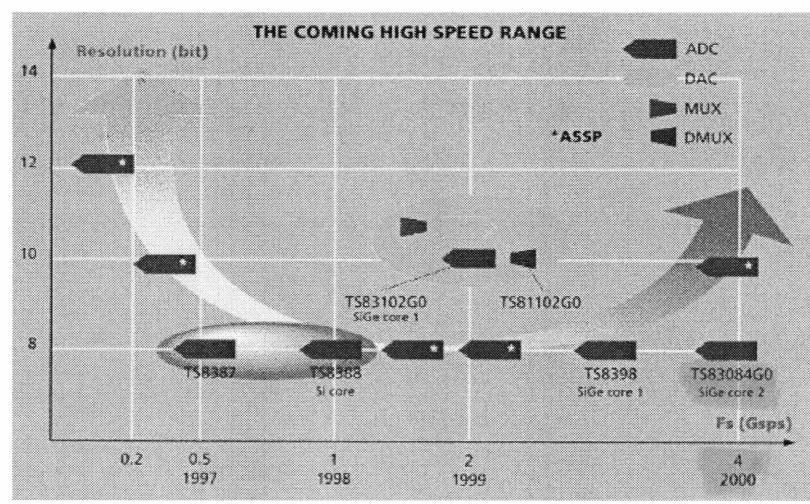
■ TCS is introducing 3 successive generations of monolithic A/D Converter cores.

- ADC 8bit 1 Gsps
- ADC 8/10bit 2 Gsps
- ADC 8/10bit 4 Gsps

■ These cores could be interleaved in order to increase sampling frequency respectively to 4 and 8 and 16 Gsps.

■ The characterized and available **TS 8388 : (ADC 8 bit 1Gbps and 2GHz bandwidth)** monolithic architecture core including S/H stages allows to consider an ASSP* approach on customer or application request. Some examples are shown on the drawing such as lower speed and higher resolution devices. In addition to these cores A/D Converters family, TCS is introducing associated devices such as D/A Converters, MUX and DMUX devices, amplifier, I/Q generation... in a monolithic way or not.

data conversion products







■ TCS strategy is to better serve the G'core customers with a complete offer of packaging and screening (from commercial plastic up to military and space levels).

*ASSP: Application Specific Standard Product.

see TS 8388 page , see FAQs page

► ADC SELECTION GUIDE :


Power supply : ± 5 V

| Product | | Resolution (#bit) | Sampling rate (MSPS) | Input bandwidth (MHz) | Package | ENOB (#bits) | SFDR (DBe) | @Test conditions | | Power dissipation | E |
|-------------------|---|-------------------|----------------------|-----------------------|---------------------|--------------|------------|------------------|----------|-------------------|-----------|
| | | | | | | | | Fin(MHz) | Fs(MSPS) | | |
| JTS 8388 B |  | 8 | 1000 | 2000 | DIE | 7.2 | 56 | 500 | 1000 | 3.6 W | TS |
| TS 8388 B |  | 8 | 1000 | 1500 | CQFP68 | 7.0 | 52 | 500 | 1000 | 3.6 W | TS |
| TS 8388 BG |  | 8 | 1000 | 1800 | CBGA72 body15x15 | 7.0 | 52 | | | 3.6 W | |
| TS 8387 |  | 8 | 500 | 1200 | CQFP68 | 7.4 | 58 | 250 | 500 | 3.0 W | TS |

For any further information about ADC, just click for a personalized contact !

► DMUX SELECTION GUIDE :

Power supply : ± 5 V

| Product | | Resolution (#bit) | Max input sampling-rate (MSPS) | Speed-ratio | Input data-format | Max output data-format (#bits) | Package | Power dissipation |
|------------------|---|-------------------|--------------------------------|-------------|-------------------|--------------------------------|---------|-------------------|
| TS81102G0 |  | 8-10 | 2000 | 1:8 / 1:4 | ECL diff. | 8 ports of 10bit | TBGA240 | 3.8 to 5.8 |

For any further information about DMUX, just click for a personalized contact !

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