

NEC

DATA SHEET

BIPOLAR ANALOG INTEGRATED CIRCUIT

μ PC1884

SYNC SIGNAL PROCESSOR FOR MULTI-SYNC DISPLAY

The μ PC1884 is a sync signal processor for multi-sync displays.

It integrates the functions necessary for the vertical/horizontal sync signals processing of a multi-sync display on a single chip. Because all functions can be handled by I²C bus, it is easy to interface with a CPU.

In addition to the basic sync signal processing, many functions, such as a H&V Dynamic Focus, multiple geometry correction circuits, and D/A converters for each control, are provided, making it easy to design applications.

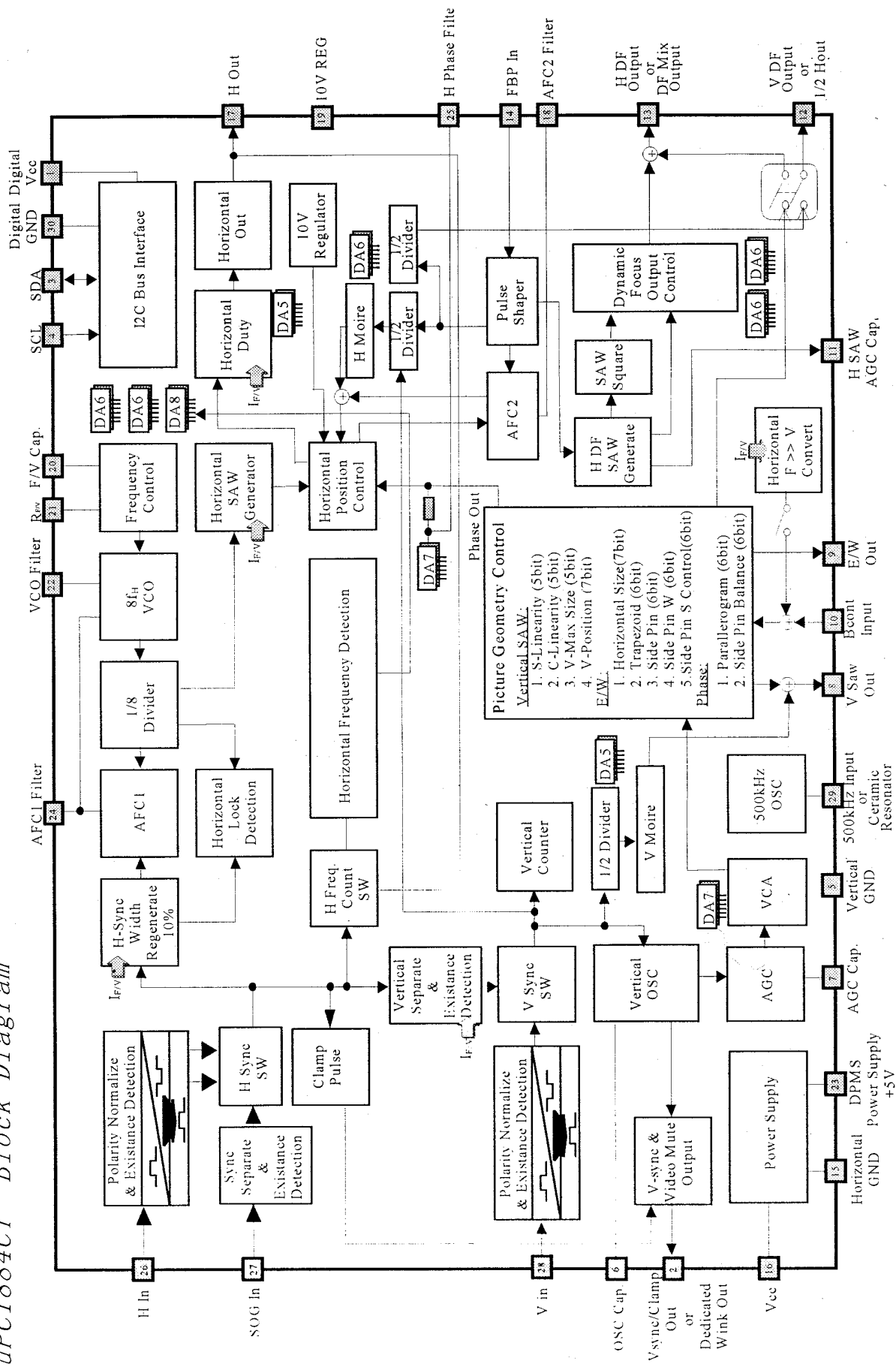
FEATURES

- I²C bus control : All functions are controlled by I²C bus.
- Geometry correction function : Geometry correction circuits are integrated on a single chip for V-S Linearity, V-C Linearity, trapezoid, Side-pin, side-pin W, side-pin S, parallelogram and side-pin balance.
- D/A converters : 20 D/A converter channels are provided to adjust each correction variable.
- Vertical linearity correction : Vertical S/C-shaped correction circuits are provided.
- Horizontal Dynamic Focus : Amplitude, Phase can be controlled. Dependent for Horizontal size.
- Vertical Dynamic Focus : Dependent for vertical size.
- Horizontal Moire Cancellor : Cancel amount can be controlled.
- Sync separation circuit : Green On Sync signal can be input with coupling capacitor.
- Vertical AGC circuit
- Size control circuit : Vertical/horizontal screen size can be controlled.
- Position control circuit : Vertical/horizontal screen position can be controlled.
- Polarity normalization circuit : Both positive and negative polarities can be input for both vertical and horizontal sync signals.
- Vertical blanking generation circuit and video clamp generation circuit : Sand castle output
- Horizontal output duty adjustable
- Horizontal Lock detection circuit
- Power management supported

ORDERING INFORMATION

Part Number	Package
μ PC1884CT	30-pin plastic shrink DIP (400 mil)

uPC1884CT Block Diagram



PIN CONFIGURATION (Top View)

30PIN • PLASTIC • SHRINK • DIP (400mil)

