

1	GND	2	G TTL
3	R TTL	4	B TTL
5	R TTL	6	H-sync
7	G TTL	8	V-Sync
9	B TTL	10	5V/GND/open
11	GND	12	R analog
13	GND	14	G analog
15	GND	16	B analog
17	GND	18	C-SYNC (TIGA/VGA)
19	GND	20	5V/GND/open

	Pin 10	Pin 20
analog	open	5V
digital	5V	GND

Problems:

The CSync signal for the analog RGB needs HSync (+) and VSync (-) to be usable for the monitor.

The resulting Signal looks like this:



VGA has different polarities for different modes, and the simple mixing of signals will not result in the correct waveform. A sense circuit has to be made to allow positive and negative polarity VSync signals to be processed.