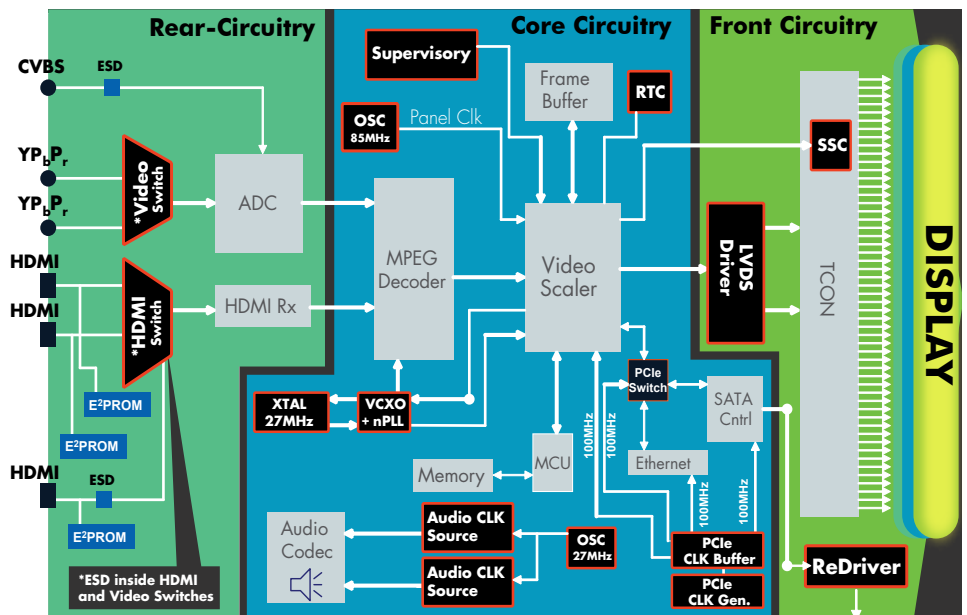


DIGITAL TV SOLUTIONS

Design more efficient systems for Digital TV with Pericom. Pericom's standardized pinout for discrete interface products and feature-rich integration (such as ESD) allow for BOM reduction possibilities. Other unique integrated features, such as high bandwidth support (2.5Gbps for HDMI and 3.0Gbps for eSATA) and jitter elimination circuitry enable the highest performance capabilities for a superior experience for the Digital TV consumer. Our total timing solutions – from crystals and oscillators to clock IC and reset IC – support the peripheral product designs for LCD TV. Our switching, timing and signal conditioning solutions make us a one-stop-shop of high-performance convenience.

Pericom's LCD TV solutions enable signal integrity, system performance, flexibility, system timing, storage connection, HDMI cable enhancement and much more. In short, Pericom offers the broadest portfolio of interface solutions for Digital TV in the market today.

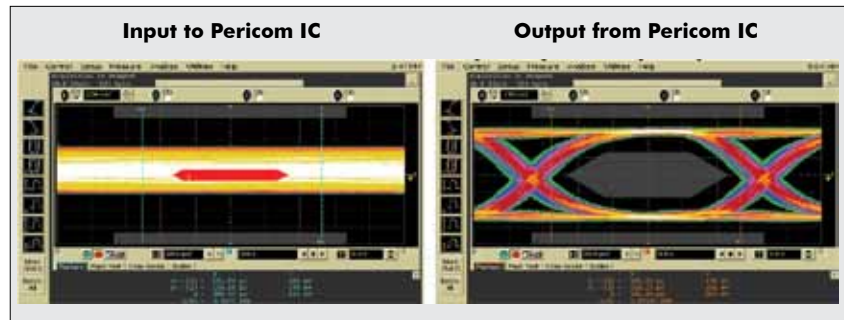
Serial Connectivity for Digital TV



HDMI Switch & ReDriver™ Signal Conditioner

Part No.	Config.	Active/Passive	Bandwidth	EQ Support	Output Control	Rx-Sense Support	ESD (Contact)	Number of Pins	Package
PI3HDMI101-A	1:1	Active	2.5Gbps	Yes	Yes	Yes	8KV	42	TQFN
PI3HDMI1210-A	2:1	Passive	4.0Gbps	No	No	Yes	8KV	48	BQSOP
PI3HDMI1212-A	2:1	Passive	4.0Gbps	No	No	Yes	8KV	80	BQSOP
PI3HDMI201	2:1	Active	2.5Gbps	Yes	Yes	Yes	8KV	56	TQFN
PI3HDMI301	3:1	Active	2.5Gbps	Yes	Yes	Yes	8KV	64, 80	TQFN, QFP
PI3HDMI231-A	3:1	Active	2.5Gbps	Yes	Yes	Yes	8KV	56	TQFN
PI3HDMI245-A	4:1	Active	2.5Gbps	Yes	Yes	Yes	8KV	72	TQFN

HDMI jitter elimination with Pericom @ 1080p



Analog Video Switch

Part No.	Config.	Channels	Vcc Supply	I/O Tolerant	No. of Pins	Package
PI3V312	2:1	4	3.3V	5.0V	16	QSOP, TSSOP, TQFN
PI3V314	4:1	3	3.3V	5.0V	40	BQSOP
PI3V512	2:1	5	3.3V	5.0V	24	QSOP
PI3V514	4:1	5	3.3V	5.0V	48	BQSOP
PI5V330	2:1	4	5.0V	5.0V	16	SOIC, QSOP
PI3V520	2:1	10	3.3V	5.0V	56	TQFN
PI3V341	4:1	3	3.3V	5.0V	24	TSSOP, QSOP
PI3DBV40	2:1	8	3.3V	3.3V	48	TSSOP

VCXO ICs (other available - please visit www.pericom.com)

Part No.	Crystal Input	No. of Outputs	Pull Range	Cycle-to-cycle Jitter	Number of Pins	Package
PI6CX100-272	Yes	1	400ppm	50ps	8	SOIC
PI6C100-27	Yes	1	240ppm	50ps	8	SOIC
PI6C100-00	Yes	1	240ppm	50ps	8	SOIC
PI6CX300	Yes	6	+/-120ppm	300ps	16	TSSOP

Quartz Crystal

Part No.	Nominal Freq (FO)	Mode of Oscillation (OT)	Load Capacitance (CL)	Freq. Tolerance (FT)	Working Temperature Range (TR)	Drive Level (DL)	Series Resonant Resistance RR (CI/RR)
GB2500018	25.000000 MHz	Fundamental	20 pF	±30 ppm	-10 ~ 70° C	100µ W	30 Ω
GB2700004	27.000000 MHz	Fundamental	16 pF	±30 ppm	-10 ~ 70° C	100µ W	40 Ω
GB6000006	60.000000 MHz	3 Overtone	20 pF	±30 ppm	-10 ~ 70° C	100µ W	60 Ω

Power Management IC

PTI Power Management solutions include three series products: μ P supervisory, Voltage detector and LDO regulators. These products can be generally applied in all kinds of fields. μ P supervisory series products provide Single, Dual or Quad channels supply monitor, Ultra-low threshold from 1.0V to 5.0V, Watchdog function and Power failure detection function. Voltage detector series products provide Single, Dual or Quad channels voltage detectors, different precision 1% or 2%, and Low power consumption ($<1\mu$ A). LDO regulators series products

provide single or dual outputs, different output current 150mA, 200mA or 300mA, and LDO plus power on reset function (POR). Supervisory Circuits range from simple three-terminal reset chips to complex multifunction devices. Pericom's growing portfolio of Microprocessor (μ P) Supervisor Circuits, also called Power-good Circuits or Reset Circuits, other precision supply voltage monitoring.

Microprocessor Supervisor Circuit

Part Number	Reset Output		Reset Output	Manual Reset Input	Power Fail Detector (1.25V)	Watchdog Input	Package
	Push-Pull	Open-Drain					
PT7M7803xT	–	√	–	–	–	–	SOT23-3
PT7M7809xT	√	–	–	–	–	–	SOT23-3
PT7M7810xT	–	–	√	–	–	–	SOT23-3
PT7M7811xTA	√	–	–	√	–	–	SOT23-5
PT7M7812xTA	–	–	√	√	–	–	SOT23-5
PT7M7823xTA	√	–	–	√	–	√	SOT23-5
PT7M7824xTA	√	–	√	–	–	√	SOT23-5
PT7M7825xTA	√	–	√	√	–	–	SOT23-5
PT7M7811xTB	√	–	–	√	–	–	SOT143
PT7M7812xTB	–	–	√	√	–	–	SOT143

NOTE: (X) REFERS TO VOLTAGE RANGE, FOR SUFFIX (X) DEFINITION SEE THE FOLLOWING TABLE:

For suffix x	L	M	J	T	S	R	Z
Reset Threshold (V)	4.63	4.38	4.00	3.08	2.93	2.63	2.32

Ultra-low Voltage Detectors and μ P Supervisory

Part Number	Reset Output				Package
	Open-Drain		Push-Pull		
	Active High	Active Low	Active High	Active Low	
PT7M6832xDy				√	SOT23-3 SC70-4
PT7M6835xDy	–	–	–	√	
PT7M6838xDy					
PT7M6833xDy					
PT7M6836xDy	–	–	√	–	
PT7M6839xDy					
PT7M6834xDy					
PT7M6837xDy	–	√	–	–	
PT7M6840Dy					

NOTES: (X) REFER TO VOLTAGE RANGE, (Dx) REFER TO TIMEOUT PERIOD IN THE FOLLOWING TABLES:

For suffix x	W	V	I	H	G	F
Reset Threshold (V)	1.665	1.575	1.388	1.313	1.110	1.050

For suffix Dy	D0	D3	D4
Reset Active Timeout Period (ms)	0.07	210	1680

Real Time Clock IC

These products provide high precision, low standby current, and wake-up clock output. They can be applied in portable devices, digital photo frames, digital TVs etc.

Small packages available: MSOP-8, TSSOP-8 & SOP-8

The main features of the Real Time Clock family include:

- ▶ Low standby current
- ▶ Clock calibration with internal register
- ▶ One or two interrupts
- ▶ Clock output with 1kHz, 4.096kHz, 8kHz, 32.768kHz or second pulse output 1Hz

	PT7C4300	PT7C4302	PT7C4307	PT7C4337	PT7C4363	PT7C4372A	PT7C4372B	PT7C4311	PT7C43190	PT7C43390
Source Crystal (Hz)	32.768k	32.768k	32.768k	32.768k	32.768k	32.768k 32.000k	32.768k 32.000k	32.768k	32.768k	32.768k
Time Display (Hour)	24	24	12 / 24	12 / 24	24	12 / 24	12 / 24	24	12 / 24	12 / 24
Programmable Square Wave Output (Hz)	512	-	1, 4.096k, 8.192k, 32.768k	1, 4.096k, 8.192k, 32.768k	1, 32, 1.024k, 32.768k	1, 2, 32.768k, 32.000k	1, 2, 32.768k, 32.000k	1~8192 (2 ⁰ ~ 2 ¹³) 32.768k	1, 2, 4, 8, 16, 32.768k	1, 2, 4, 8, 16, 32.768k
Alarm Interrupt	-	-	-	2	1	2	1	1	2	2
NV RAM	-	31 x 8	56 x 8	-	-	-	-	√	-	-
Clock Calibration	√	-	-	-	-	√	√	-	√	√
Oscillator Enable/Disable	√	√	√	√	-	-	-	√	-	-
Oscillator Fail Detect	-	-	-	√	√	√	√	-	-	-
Programmable High/Low Output	√	√	-	-	-	-	-	√	-	-
2-wire I ² C Bus	√	-	√	√	√	√	√	√	-	√
3-wire Bus & Wire Protection	-	√	-	-	-	-	-	-	√	-
Battery Backup	√	√	√	-	-	-	-	-	-	-
External Clock Test Mode	-	-	-	-	√	-	-	-	√	√
Charger	-	√	-	-	-	-	-	-	-	-
Calendar	√	√	√	√	√	√	√	√	√	√
Time Trimming by Register	√	-	-	-	-	-	√	√	√	√
Package	DIP8 SOIC8	DIP8 SOIC8	DIP8 SOIC8	DIP8 SOIC8 MOSP8	DIP8 SOIC8	SOIC8 TSSOP8 MSOP8	SOIC8 TSSOP8 MSOP8	SOIC8 TSSOP8	SOIC8 TSSOP8 SNT-8	SOIC8 TSSOP8 SNT-8
Compatible	M41T00	DS1302	DS1307	DS1337S	PCF8563	RS5C372		M41T11	S-35190A	S-35390A