



Specialist Distributor of components & products to the Surveillance & Embedded Computing Industries

Product Overview



Techwell

Video Decoder IC's

www.techwellinc.com

Techwell produce a range of video analogue to digital converter products.

TW28xx is a product line of feature-rich, highly integrated video decoders, video controllers and video CODEC solutions for the CCTV Security Surveillance market. **TW28xx** quad decoder solutions incorporate DVR audio, multiplexing, DSP, display, compression, motion detection and horizontal/vertical scaling algorithms. **TW2880** is an advanced 16-channel video and graphic controller with **HD 1080p** display capability for security surveillance applications. **TW88xx** is a product line of highly integrated LCD TV controllers for TV, Car Display applications and other LCD video displays. With built-in scaling, de-interlacing on -screen displays The **TW88xx** can support from QVGA up to SXGA LCD panels. **TW99xx/68xx** are a broad product line of NTSC/PAL/SECAM video decoders for multimedia applications, including Advanced Digital TV, LCD Monitor, DVD-Re-corder, and PC applications, converting composite video, S-Video, YCbCr and SCART into standard digital formats. In addition, **TW99xx** video de-coders integrate proprietary 2D and 3D comb filtering technology to reduce artifacts commonly associated with analogue video.



Multi Channel MPEG SoC Codec

www.chipwrights.com

The ChipWrights **CW5631** processor is an embedded System-on-Chip (SoC) designed for multi-purpose devices that require rapid digital imaging processing, low cost, and low power consumption. Features include streaming video input and output ports, Hi-speed USB, I2S audio, Compact Flash, Secure Digital/MMC card, and 10/100 Ethernet interfaces, in addition to other SoC features. This makes the **CW5631** an ideal platform for portable or embedded digital media products.



HD H.264 Encoders, Decoders & Transcoders

www.magnumsemi.com

Magnum's family of broadcast quality encoders, decoders and transcoders achieve maximum video quality at the industry's lowest bitrates, optimizing storage and transmission costs. Supporting multiple channel encode, decode and transcode of **H.264**, **VC-1**, and **MPEG-2** in **HD** and **SD upto 1080p60 High Profile L4.2**. Encode and decode of MPEG audio, Dolby Digital Plus, DTS-HD Master Audio.



Advanced Multimedia Processors

www.c2micro.com

C2 Microsystems' **CC1200** media processor for full HD video applications. Optimized for next-generation high-definition broadcast services and broadband rich media applications the **CC1200** encodes and decodes all current broadcast formats (including VC1, H.264, MPEG2, MPEG4) and a wide variety of Internet content formats and performs high quality audio post-processing and video de-interlacing and scaling for high-definition display. **CC1200** transcodes content into several formats for place-shifting and for side-loading onto portable devices. **CC1200** encodes video for video monitoring, video chat and place shifting applications. **CC1200** has a dual-core Symmetric Multiprocessor (SMP) which, with hardware acceleration of graphics operations, delivers very high applications processing performance. The software implementation gives application developers unprecedented control over codec behaviour (e.g. dynamic rate control, sophisticated image processing, etc.).



Graphics and Flash controllers

www.siliconmotion.com

Silicon Motion's core products are flash memory card controller, USB flash disk controllers, low power embedded audio/video DSP, and high performance multimedia companion graphics controllers. Graphics - **SM502 / 712 / 722** offer high performance, extremely low power solutions with embedded memory (4 Mb - 8 Mb) for 2D and 3D applications. Supporting direct 32bit CPU & PCI interfacing for all major processor architectures. Evaluation cards and software available for AGP or PCI applications. Software drivers for all major operating systems. Silicon Motion's **embedded flash controllers** are designed to control flash embedded in devices using standard SD, MMC, Compact Flash, USB, and SSD (Solid State Drive) interfaces. **SM601/611** are fully integrated Solid State Disk modules in a 12 x 24mm BGA package.



DVI, LVDS Transmitter & TV Encoder (SDVO) Products

www.chrontel.com

DVI Transmitters - upto 165Mpixels/second including HDCP support. **LVDS Transmitters** - Single/Dual LVDS Transmitters upto 165Mpixels/second, upscaling to 1600 x 1200. **TV Encoders** - VGA to SDTV/EDTV/HDTV supporting resolutions upto 1600 x 1200. **MPEG to TV Encoders** - The CH720X product family is designed to convert CCIR601 standard video data to a PAL/NTSC TV signal.



HDMI Tx/Rx, Display Port & High Speed ADC's

www.ite.com.tw

HDMI 1.3 Transmitters, Receivers and Switches. Display Port 1.1a Transmitters and Receivers and High Speed ADCs - 170MSPS Triple 10-bit Video A/D Data Converter



Embedded Low Power Java Processor

www.ajile.com

aJile Systems develops and markets a family of low-power, direct execution microprocessors combined with aJile real-time OS kernel for the JME platform. This silicon-based JME platform targets the new generation of Java enabled mobile internet appliances and M2M networked embedded devices. The aJile Systems aj-102 & aj-200 are real-time, low-power, multimedia microprocessors that execute Java Virtual Machine (JVM) byte-codes, real-time Java threading primitives, multimedia functions, and secured networking. Designed specifically to power a wide range of mobile internet appliances, which allow the mobile media, Java games, and edutainment contents to be downloaded on demand via broadband or cellular networks.



x86 Embedded PC-on-a-Chip

www.zfmicro.com

Designed expressly for embedded applications. The ZFx86 is the first and only System-on-a-Chip that includes the BIOS and operating system software combined with an internal FailSafe boot ROM that ensures that your system will always be accessible, even if all external Flash memory has been corrupted. The ZFx86 is fully compatible with all standard PC software. It will run any standard operating system capable of running on a fully compatible PC with FPU such as Linux, DOS, many RTOS, and Windows CE, Windows 9x and Windows NT. ULTRA LOW POWER - less than 500mW@100MHz w/APM Ideally suited to applications where low power is required for long battery life or in harsh environments where airflow for heat dissipation is restricted and heatsinks and fans are unacceptable.



Point of Load / DC-DC Power Modules

www.netpowercorp.com

NetPower is a world-class supplier of high performance DC-DC converters utilising leading edge technology. NetPower's patented designs provide the best thermal management in the industry, leading to higher performance and longer reliability. Their **DC-DC** converters operate from **2.5V to 75V** input, at up to **80W**, ideal for the industrial, medical and military markets in addition to the communications market. NetPower's quality, cost-of-ownership, and technical customer support is unsurpassed in the industry.



LCD Panels, Character & AMOLED Displays

www.ampire.com.tw

Ampire manufacture a wide range of TFT & LCD displays, as well as Character, Graphic and AMOLED displays for the automotive, entertainment, industrial, consumer, portable, medical and gaming markets. The analogue and digital interface panels are available in sizes from 2.45" to 15" and in resolutions of 480, 960, 1200 and 1440 x 234 and brightness of up to 1000 nits. Also available are RGB panels with 640 x 480 and 800 x 600 resolution.



Ethernet MACs/PHYs & Switches

www.icplus.com.tw

IC+ are a leading supplier of networking products, including low cost **10/100/100 PHYs** (**IP1001** is an integrated physical layer device for 1000BASE-T, 100BASE-TX, and 10BASE-T applications.), **5-8 port switches** (**IP178C** integrates a 9-port switch controller, SSRAM, and 8 10/100 Ethernet transceivers) and **Serial to Ethernet** controllers (The **IP210T** is a cost effective and highly integrated Serial-to-Ethernet SoC. Embedding a 8051 CPU, 64KB OTP ROM, 32K bytes SRAM, 2 channel 8bit ADC, 10/100Mbps Ethernet and UART)



Ethernet MACs, PHYs & Switches

www.davicom.com.tw

Davicom is a leading silicon solution provider of networking and communication IC solutions. Specialising in USB, Ethernet-based networking technologies and communication semiconductors. Products Include :

10/100 BaseTx - Single-chip Ethernet MAC+PHY ISA & PCI controllers 3.3V & 2.5V, including the World's Smallest Ethernet Controller, the **DM9000A** in a tiny 48-pin QFP package. Ethernet Switches - 2-5 Port, including a 2 port PCI switch.



Power Magnetics, Ethernet Connectors

www.ceetus.com.cn

Low Cost transformers and RJ45 connectors in single and multiple units for 10 base T, 10/100baseTx and Gigabit Ethernet, with or without magnetics and LEDs. DC-DC converters for medium power applications.



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