



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



| | |
|-------------------|---|
| CPU | Texas Instruments DM814x*ARMv7 architecture Cortex A8 @ 1 GHz |
| Multimedia | NEON Media Technology (Adv. SIMD coprocessor) PowerVR SGX 530 3D Graphics Accelerator Programmable HDVICP Engine HD Video Processing Subsystem (HDVPSS) Imaging Subsystem (ISS) Up to 750-MHz C674x Floating-Point VLIW DSPC |
| Supervisor | On board power supply supervision and power sequencer Watchdog and RTC |

| | |
|---------------|--|
| Memory | |
| Cache | L1: 32Kbyte instruction, 32Kbyte data L2: Unified data/instruction, 512 KByte |
| SDRAM | Up to 2GB DDR3 @ 533MHz |
| NOR | Bootable SPI NOR 16, 32 MB |
| NAND | All sizes, on request |
| SRAM | 128 KByte |
| EEPROM | Yes |

Interfaces (full-spec models) *

| | |
|---------------------|---|
| PCIe | PCIe lane |
| LAN | Ethernet 10/100 Mbps (PHY on board) Additional RGMII Interface available |
| UART | up to 2x UART ports 4 wires up to 1x UART ports 8 wires |
| CAN | 2x CAN controller (version 2 part A, B) |
| USB | 1x 2.0 OTG port (PHY on board) 2x 2.0 Host port (PHY on board) |
| External Bus | GPMC 16-bit bus |
| Storage | 1x SATA 3.0 Gbps channel |
| SDIO | 2x SD/MMC card |
| Audio | McASP interface |
| Video Output | 16-/24-/30-bit HD Display Port 1x TFT/RGB 1x HDMI 1 x TV out |
| Video Input | up to 1x 24-bit video in port up to 1x 30-bit video in port |
| Debug | JTAG IEEE 1149.1 Test Access Port |
| Other | up to 2x I2C channels up to 3x SPI channels GPIOs with interrupt capabilities 8x8 keypad |

Mechanical

| | |
|--------------------|--|
| Connectors | 2x 140 pin 0.6mm pitch |
| Size | 70mm x 65mm |
| Temperature | Commercial (0°C / +70°C) temperature range Industrial (-40°C / +85°C) temperature range |

PSU

| | |
|--------------|-----------------------------------|
| Input | 3.3V, on-board voltage regulation |
|--------------|-----------------------------------|

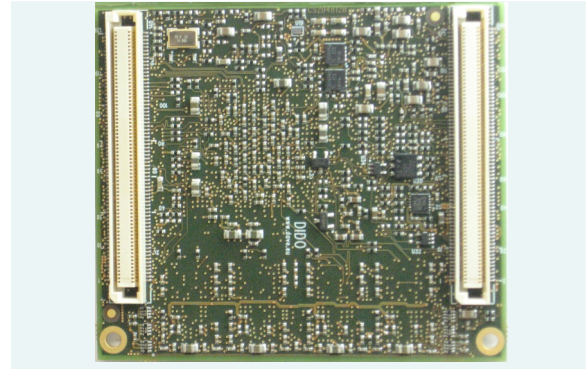
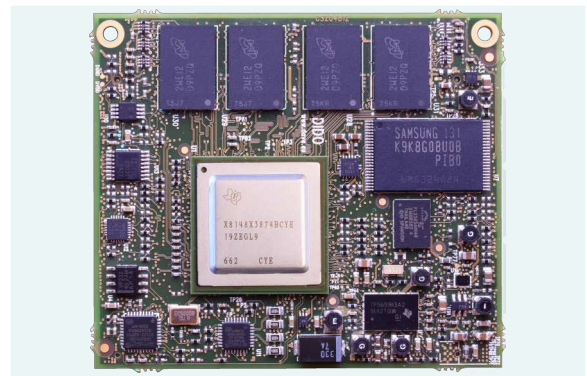
Software

| | |
|---------------------|--------------|
| Bootloader | U-Boot |
| Multitasking | Linux 2.6.37 |

Evaluation Kit

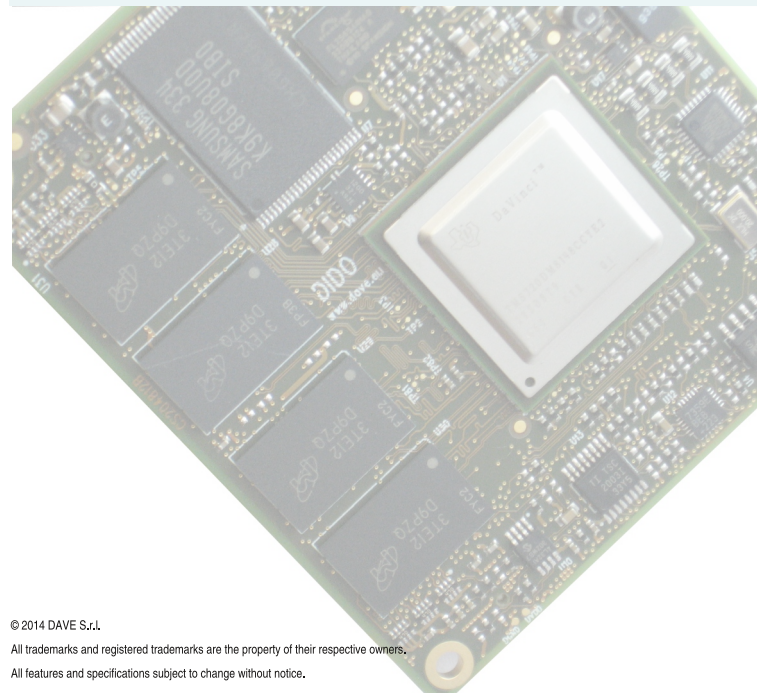
The DIDO evaluation kit is available in a development kit that includes a SOM, a carrier board and all accessories required for immediate start-up.

*: interface availability depends on pin multiplexing.
Please contact your local FAE.



Product code configurator *

| Family | Processor | NOR flash | DDR RAM | NAND flash | Temp. range |
|--------|--|-----------|----------|------------|------------------|
| DO | A = AM3871 800M no SGX | 0: No NOR | 7: 128MB | 0: No NAND | I: -40 / +85°C |
| | B = AM3874 800M SGX | 4: 16MB | 8: 256MB | 7: 128MB | Industrial temp. |
| | D = DM8148 700M HDVIP | 5: 32MB | 9: 512MB | 8: 256MB | C: 0 / 70°C |
| | F = DM8148 1G DSP 600M | 6: 64MB | 1: 1GB | 9: 512MB | Commercial temp. |
| | G = DM8147 700M HDVIP | | 2: 2GB | 1: 1GB | |
| | H = DM8148 1G DSP 750M | | | 2: 2GB | |
| | L = DM8147 1G DSP 600M M = DM8147 1G DSP 750M | | | | |



© 2014 DAVE S.r.l.

All trademarks and registered trademarks are the property of their respective owners.

All features and specifications subject to change without notice.



DAVE S.r.l.
Via Talponedo, 29/A
33080 Porcia (PN) - ITALY
Ph +390434921215
Fax +3904341994030

www.dave.eu
wiki.dave.eu
sales@dave.eu
support-dido@dave.eu