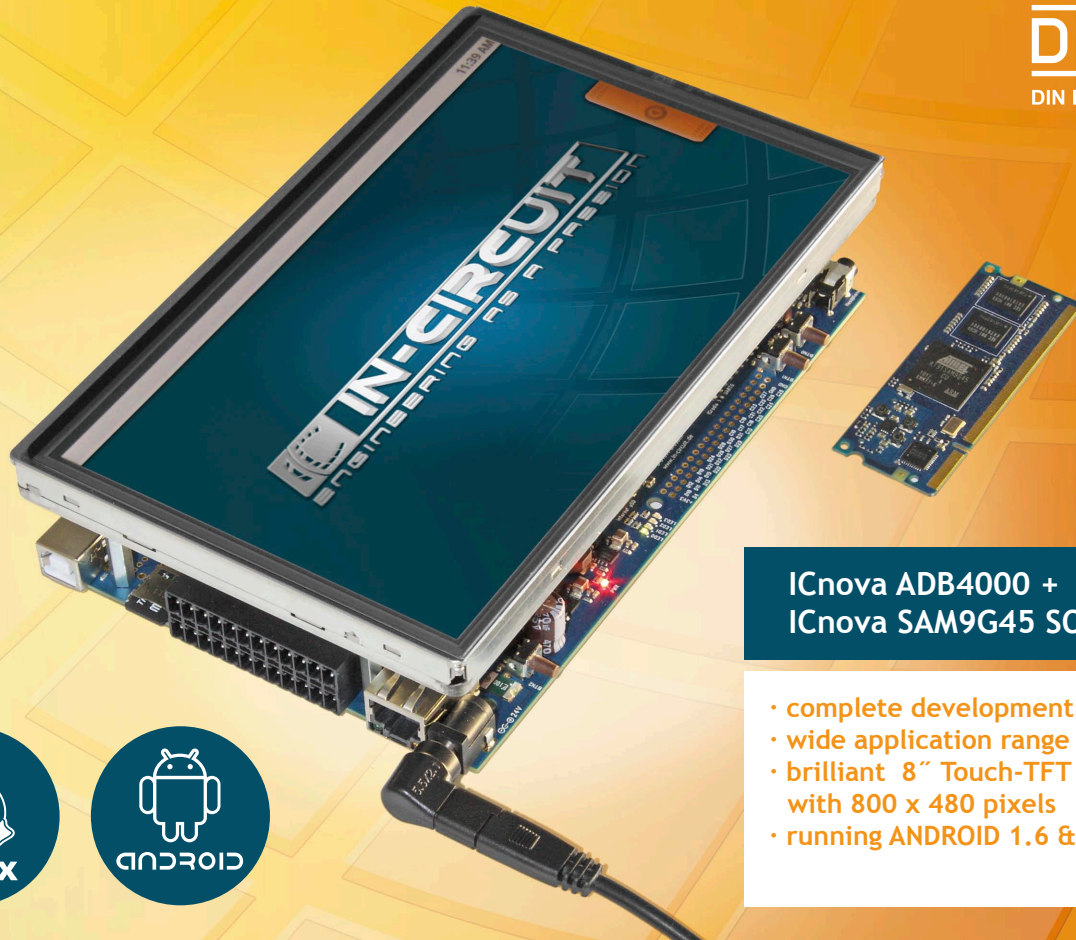


shortening your application development time!


DIN ISO
 DIN EN ISO 9001:2008


ICnova ADB4000 + ICnova SAM9G45 SODIMM

- complete development environment
- wide application range
- brilliant 8" Touch-TFT with 800 x 480 pixels
- running ANDROID 1.6 & Linux 2.6.32

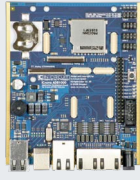

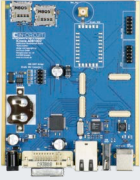





PRODUCT	Name	ICnova SAM9G45 SODIMM	ICnova ADB4000
	Class	Computer on Module	Development Board
	Order Number	No. 901.227	No. 901.234
COMPUTER ON MODULE	Processor	Atmel AT91SAM9G45	
	Frequency	ARM9, 400MHz	
	Memory RAM/NOR/NAND	DDR2 128MB, NOR 8MB, NAND 256MB	
	Power supply	3.3V to 5.5V (3.3V I/O level)	
	Size	SO-DIMM 200	
	Temperature range	(-20 °C ... 70 °C...normal) (-40 °C ... 85 °C...industrial)	
KEY FEATURES	Ethernet	1x 10/100 Mbps with PHY on board	1x 10/100 Mbps
	USB Host/Device	480MBit, 2xHost, 1xDevice	480MBit, 4xHost, 1xDevice
	LCD Controller	up to 2048 x 2048 pix ; 24 bpp	8" LCD Display
	Image Sensor IF	1	1x (on pinheader)
	UART	4 + 1 DBG	1 DBG + 2x ICradio + 3xRS485
	MMC / SDIO	2	2x μSD-Card
	SPI / SSC / AC'97 / CAN	2 / 2 / 1 / -	- / 1 / - / -
	I2C	2	1
	ADC / DAC	8 / -	7 / -
	further Peripherals		RTC, Audio Codec, 5x digital Input, Relay, Buzzer, 2x analog Sensor Input (0-10V or 4-20mA)
	usable I/O Lines	134	45
	OS support	Linux 2.6.33, Android 1.6	Linux 2.6.33, Android 1.6
	DEVELOPMENT SYSTEM	suitable development boards	ICnova ADB4000

ICnova OEM Module

- most compact system-on-module solution on market
- footprint (35mm x 40mm)
- wide range scalable performance (200 - 800 MIPS)
- free available board support package (BSD)
- pin-to-pin compatibility within module range
- long term availability guaranteed (>5 years)

IC NOVA MODULE	Product	ICnova AP7000 OEM	ICnova AP7000 OEMplus	ICnova SAM9G45 OEM	ICnova SAM9M10 OEM	ICnova i.MX353 OEM
	Order Number	No. 901.120	No. 901.134	No. 901.182	No. 901.236	No. 901.200
						
Processor	Atmel AT32AP7000	Atmel AT32AP7000	Atmel AT91SAM9G45	Atmel AT91SAM9M10	Freescale i.MX353	
Architecture, Frequency	AVR32, 140MHz	AVR32, 140MHz	ARM9, 400MHz	ARM9, 400MHz	ARM11, 533MHz	
Memory RAM / NOR / NAND	SDRAM 64MB NOR 8MB	SDRAM 64MB NOR 1MB NAND 256MB	DDR2 128MB NOR 1MB NAND 256MB	DDR2 128MB NOR 1MB NAND 256MB	DDR2 256MB NOR 8MB NAND 256MB	
Power supply	3.3V	3.3V	3.3V to 5.5V, 3.3V IO Level	3.3V to 5.5V, 3.3V IO Level	3.3V to 5.5V, 3.3V IO Level	
Size	35mm x 40mm	35mm x 40mm	35mm x 40mm	35mm x 40mm	35mm x 40mm	
Temperature range	-20°C ... 70°C	-20°C ... 70°C	(-20°C ... 70°C...normal) (-40°C ... 85°C...industrial)	(-20°C ... 70°C...normal) (-40°C ... 85°C...industrial)	(-20°C ... 70°C...normal) (-40°C ... 85°C...industrial)	
KEY FEATURES	Ethernet	2x 10/100 Mbps MAC Controller	2x 10/100 Mbps MAC Controller	1x 10/100 Mbps MAC Controller	1x 10/100 Mbps MAC Controller	1x 10/100 Mbps MAC Controller
USB Host/Device	480 MBit, 1xDevice	480 MBit, 2xHost, 1xOTG, 1xDevice	480MBit, 2xHost, 1xDevice	480MBit, 2xHost, 1xDevice	480 MBit, 2x Host / OTG	480 MBit, 2x Host / OTG
LCD Controller	up to 2048 x 2048 pix ; 24 bpp	up to 2048 x 2048 pix ; 24 bpp	up to 2048 x 2048 pix ; 24 bpp	up to 2048 x 2048 pix ; 24 bpp	up to 1024 x 1024 pix ; 24 bpp	up to 1024 x 1024 pix ; 24 bpp
Image Sensor IF	1	1	1	1	1	1
Accelerator / Decoder	Pixel Coprocessor for video	Pixel Coprocessor for video	—	Multi-format Video Decoder	Open-GL	Open-GL
UART	4	4	4 + 1 DBG	4 + 1 DBG	3	3
MMC / SDIO	1	1	2	2	2	2
SPI / SSC / AC'97 / CAN	3 / 3 / 1 / —	3 / 3 / 1 / —	2 / 2 / 1 / —	2 / 2 / 1 / —	2 / 2 / 1 / 2	2 / 2 / 1 / 2
I2C	1	1	2	2	3	3
ADC / DAC	—	—	8 / —	8 / —	—	—
usable I/O Lines	124	114	123	123	124	124
OS support	Linux 2.6.28	Linux 2.6.28	Linux 2.6.33, Android 1.6	Linux 2.6.33	Linux 2.6.33	Linux 2.6.33

IC NOVA DEVELOPMENT BOARDS	Product	ICnova ADB1000	ICnova ADB1001	ICnova ADB1002	ICnova ADB1003	ICnova ADB1004	ICnova ADB3000
	Order Number	No. 901.133	No. 901.177	No. 901.178	No. 901.192	No. 901.199B	No. 901.194
							
COMPUTER ON MODULE		ICnova AP7000 OEM ICnova AP7000 OEMplus ICnova SAM9G45 OEM ICnova SAM9M10 OEM ICnova i.MX353 OEM	ICnova AP7000 OEM ICnova AP7000 OEMplus ICnova SAM9G45 OEM ICnova SAM9M10 OEM ICnova i.MX353 OEM	ICnova AP7000 OEM ICnova AP7000 OEMplus ICnova SAM9G45 OEM ICnova SAM9M10 OEM ICnova i.MX353 OEM	ICnova AP7000 OEM ICnova AP7000 OEMplus ICnova SAM9G45 OEM ICnova SAM9M10 OEM ICnova i.MX353 OEM	ICnova AP7000 OEM ICnova AP7000 OEMplus ICnova SAM9G45 OEM ICnova SAM9M10 OEM ICnova i.MX353 OEM	ICnova AP7000 OEM ICnova AP7000 OEMplus ICnova SAM9G45 OEM ICnova SAM9M10 OEM ICnova i.MX353 OEM
KEY FEATURES	Ethernet (10/100 Mbps)	1	2	1	1	—	1
USB Host/Device	0/1 3/1 1/1	0/1 1/1	0/1 1/1	0/1 3/1 1/1	0/1 1/1	—	1/1
Display	LCD 3.5" / 5"	—	DVI	interface on pins	LCD 3.5" / 4.3" / 5"	—	LCD 5"
Camera Interface	1x (on pinheader)	1x (on pins)	—	1x (on pins)	—	—	1
RTC	yes	yes	—	yes	—	yes	—
MMC / SDIO	1x SD-Card	1x μSD-Card	2x μSD-Card	—	1x μSD-Card	—	1x μSD-Card
UART/CAN	4/0 3/1	4/0	1 + 1 ICradio OEM / 0	4/0 3/1	1 + 1 ICradio OEM / 0	—	4+1 / 0
RS485	2 1	—	—	—	—	—	—
SPI	1	1	—	2 x	1	—	2
SSC	—	1	—	1x (on pins)	—	—	2
I2C	1	1	1	1	1	—	2
OS support	Linux	Linux	Linux	Linux	Linux / Android	—	Linux