

Product Overview

Embedded Modules



NetDCU

- 100x80mm
- Single Voltage 5V
- STN, CSTN, TFT
- Robust 2,54mm Connectors
- Very Easy Carrier Board
- No External Hardware Required

armStone™

- 100x72mm
- Single Voltage 5V, 12V optional
- LVDS-TFT, DVI
- Feature Connector 2,54mm
- PicoITX – Single Board Computer

QBliss

- 70x70mm
- Single Voltage 5V
- LVDS-TFT, DVI-D
- WLAN on Board
- MXM2 Goldfinger Connector, 230 Pins, 0,5mm
- Qseven Standard

Overview

Product	NetDCUA5	NetDCUA9	armStone™ A5	armStone™ A8	armStone™ A9	QBlissA9
State	Mass Production	Q4/2014	Mass Production	Mass Production	Mass Production	Mass Production
Processing Power	+	++++	+	++	+++++	+++++
Windows CE	6.0 R3/Compact 7	Compact 7/2013	6.0 R3/Compact 7	6.0 R3/Compact 7	Compact 7/2013	Compact 7/2013
Linux	3.3	3.3	3.3	3.3	3.3	3.3
CPU	Freescle Vybrid	Freescle i.MX6 Single-/Dual-Core	Freescle Vybrid	Samsung S5PV210	Freescle i.MX6 Single-/Dual-/Quad-Core	Freescle i.MX6 Single-/Dual-/Quad-Core
	Cortex-A5 – 500MHz	Cortex-A9 + NEON 1GHz	Cortex-A5 – 500MHz Cortex-M4 – 167MHz	Cortex-A8 + NEON 800MHz [1GHz]	Cortex-A9 + NEON 1GHz	Cortex-A9 + NEON 1GHz
Special	2D, NEON, FPU	FPU, OpenGL/ES 2.x, 3D, MPEG4	2D, NEON, FPU	2D, 3D, MPEG4	FPU, OpenGL/ES 2.x, 3D, MPEG4	2D, 3D, 2x MPEG4, WLAN
Flash (up to)	1GB	32GB (eMMC)	1GB	1GB	32GB (SD card)	32GB (SD card)
RAM (up to)	512MB	1GB	512MB	512MB	2GB	2GB
Ethernet	2	2	1 + [1]	1 + [1]	1	1 (1000Mbit)
RS232/Serial	3	3	3	3	3	1 + 1*
USB Host	1	1	1	1	4	4
USB Device	1	1	1	1	1	1
SD-Card	1	1	1	1	1	2 (1*)
SATA/mPCIe					[1]/1	[1]/1
Audio	IN/OUT/MIC	IN/ OUT/ MIC	IN/ OUT/ MIC	IN/ OUT/ MIC	IN/ OUT/ MIC	AC97
CAN	2	2	1 [2]	1	1	1
I ² C	1	1	1	1	1	2
SPI	1	1	1	1	1	1
Digital I/O	21**	21**	66**	66**	66**	x**
Matrix Keyboard	x	x	x	x	x	
Touch Panel	x	x	x	x	x*	[x]
LVDS		24Bit	[18Bit]	18Bit	24Bit	24Bit
RGB	18Bit	18Bit	18Bit		18Bit	
RT/DVI				DVI 1080p	DVI 1080p	DVI 1080p
Camera/Video-IN		x				[x]

x available [] optional * external ** with restrictions

Product Overview

Embedded Modules



PicoMOD

- 80x50mm
- Single Voltage 3,3V
- TFT, LVDS, DVI-D
- High Flexibility
- One Connector Only, 140 Pins, 0,8 Pitch
- Address-/ Data-Bus
- Camera Interface

PicoCOM

- 40x50mm
- Single Voltage 3,3V
- ARM9 to Cortex-A5
- TFT
- Low Cost
- One Connector Only, 80 Pins, 0,8 Pitch

efus™

- 47x62mm
- Single Voltage 5V
- RGB/ LVDS/ DVI
- MXM2 Goldfinger Connector, 230 Pins, 0,5mm
- Cortex-A9
- Camera, PCIe, SATA

Overview

Product	PicoMOD1.2	PicoMODA5	PicoMODA9	PicoCOMA5	PicoCOMA8	PicoCOMA9X	efus™ A9	efus™ A5
State	Samples	Q3/2014	Mass Production	Mass Production	Q4/2014	Q1/15	Mass Production	Q4/2014
Processing Power	+	++	++	+	+	++	++	+
Windows CE	CE 6 R3/ Compact 2013	CE 6 R3/ Compact 7/2013	CE 6 R3/ Compact 7/2013	CE 6 R3/ Compact 7/2013	Compact 7/2013	Compact 7/2013	Compact 7/2013	Compact 7/2013
Linux		3.3	3.3	3.3	3.3	3.3	3.3	3.3
CPU	Freescle Vybrid	Freescle Vybrid	Freescle i.MX6 Single-/Dual-Core	Freescle Vybrid	Texas Instruments	Freescle i.MX6 Single Core	Freescle i.MX6 Single-/Dual-/Quad-Core	Freescle Vybrid
	Cortex-A5 – 500MHz	Cortex-A5 – 500MHz	Cortex-A9 + NEON, 1GHz	Cortex-A5 – 500MHz	Cortex-A8 – 1GHz	Cortex-A9 – 1GHz	Cortex-A9 + NEON, 1GHz	Cortex-A5 – 500MHz Cortex-M4 – 167MHz
Special	NEON, FPU	NEON, FPU	2D, OpenGL, MPEG4	2D, NEON, FPU	NEON, FPU	2D, 3D, OpenGL	2D, OpenGL, MPEG4	2D, NEON, FPU
Flash (up to)	1GB	1GB	1GB	1GB	1GB	1GB	32GB (eMMC)	1GB
RAM (up to)	512MB	512MB	2GB	512MB	512MB	512MB	1GB	512MB
Ethernet	1	1	1	1	1	1 [2]	2	2
RS232/ Serial	3	4**	4**	3	3	3	4	4
USB Host	1	1	1	1	1	1	1	1
USB Device	1	1	1	1	1	1	1	1
SD-Card	1*	1 + 1*	1 + 1*	1*	1*	1*	2*	2*
SATA/mPCIe							[1]/1*	
Audio		IN/OUT/MIC	IN/OUT/MIC	IN/OUT	IN/OUT	IN/OUT	I2S	I2S
CAN	1	1	1	1	1	1	2	2
I ² C	1	1	1	1	1	1	2	2
SPI	1	1	[1]	[1]	[1]	1	2	2
Digital I/O	tbd	tbd	64	x	x	x	x	x
Analog I	tbd	x						X
Matrix Tastatur	x	x	x	x**	x**	x**		X
Touch Panel		x	x	x	x	x	2*	2*
LVDS			(24Bit)	18Bit*	18Bit*	18Bit	24Bit	18Bit
RGB	18Bit	18Bit	18Bit	18Bit	18Bit	18Bit	18Bit	18Bit
CRT/ DVI/ HDMI			[DVI 1080p]				DVI 1080p	
Camera/ Video-IN		tbd	[x]				x	x

x available [] optional * external ** with restrictions