

# Matrix-522 (Linux 搭載 Box 型 小型コンピュータ)

## Matrix-522

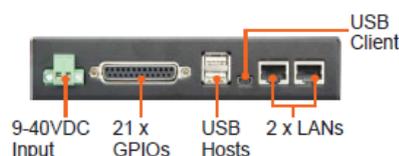
Linux-ready, 400MHz ARM9-based Box Computer

with 2 x CAN interface, 2 x Ethernet and 2 x RS-232/422/485 Ports



- ▶ ATMEL 400MHz ARM9 processor (AT91SAM9G20)
- ▶ Linux kernel 2.6.29 with file system
- ▶ 64MB SDRAM, 128MB NAND Flash, 2MB Data Flash
- ▶ MicroSD socket inside the box
- ▶ 2 x CAN bus ports support SocketCAN/CANOpen
- ▶ 2 x 10/100M Ethernet ports
- ▶ 2 x RS-232/422/485 serial ports
- ▶ 2 x USB hosts and 21 x GPIOs
- ▶ Less than 3W power consumption

Back View



## 仕様

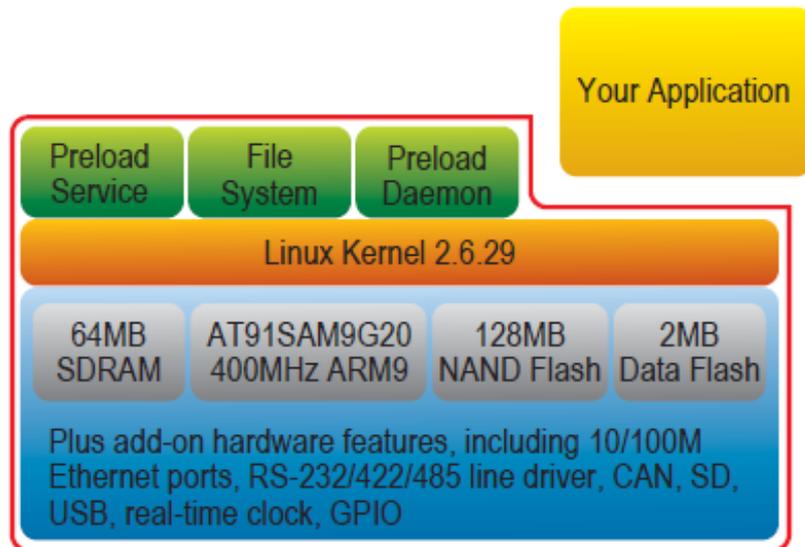
性能	CPU	ATMEL 400MHz ARM9(AT91SAM9G20)
	RAM	64MB SDRAM
	Flash ROM	128MB NAND Flash 2MB NAND Flash(Data Flash)
I/O	LAN	2 x 10/100Mbps (RJ45)
	CAN	2 x CAN bus port( Socket CAN/CANOpen) 1Mbps(Max)
	SD Scket	1 x SD Micro socket (筐体内部)
	Serial	2 x RS232C/422/485 Baudrate Max921.6Kbps Data bit 5,6,7,8 Stop 1,1.5,2 Flow RTS/CTS,XON/XOFF,None *RS485 Direction control AUTO(Hardware)
	USB 2.0	2 x Host (USB V2.0) 1 x Client(予約)
	GPIO	21 signals(Input/output プログラムブル)
Linux	OS	Linux kernel V2.6.29
	Boot Loader	U-Boot 1.1.2
	File System	UBI,JFFE2,EXT2/EXT3,VFAT/FAT,NFS
環境温度	動作温度	0℃～50℃
	保存温度	-20℃～70℃
電源	入力	DC9V～DC40V
サイズ	160mm x 104mm x 32mm	
その他	リアルタイムクロック、WatchDog 機能内蔵、ブザー付	

\*アプリ開発環境 (SDK) は別途、ご提供します。また、アプリケーションの開発もご相談ください。

\*貸出機器を用意しています。問い合わせください。

\* Win-CE/Embedded 版も用意。問い合わせ願います。

# System Architecture



## シリーズ製品

### Matrix-604

ATMEL 9630, WinCE 6.0 Box Computer with 1x LAN, 4x RS-232/422/485 COM ports and 2x USB Hosts

- WinCE 6.0 computing platform with the system
- CPU: AT91 AT91SAM9G20, 400MHz
- Flash: 128MB, NAND type
- SDRAM: 64MB
- DataFlash: 2MB
- Failover mechanism against system crash
- Ethernet: 1x, 10/100Mbps
- COM Ports: 4x, RS-232/422/485
- USB Hosts: 2x, USB 2.0 compliant
- Power Input: 4~48VDC, 300mA@12V
- GPIO: 16-bit and can time modules
- Supports Network: TCP/Comcast/Networks 3.0



- Data Sheet
- User Guide



### Matrix-505

ATMEL 9645, Linux-ready Box Computer with 2x LAN, 1x RS-232/422/485, 3x RS-232/485 TTYs and 2x USB Hosts (up to 400Mbps)

- Linux 2.6.29 computing platform with the system
- CPU: AT91 AT91SAM9G45, 400MHz
- Flash: 128MB, NAND type
- DDR2 SDRAM: 128MB
- DataFlash: 2MB
- micro-SD sockets (up to 32GB)
- Failover mechanism against system crash
- Ethernet: 2x, 10/100Mbps
- TTYs: 1x, RS-232/422/485, 3x RS-232/485
- USB Hosts: 2x, USB 2.0 compliant, supports high speed mode (480Mbps)
- Power Input: 9~48VDC, 300mA@12V
- GPIO: 16-bit and can time for Linux and Windows



- Data Sheet
- User Guide

Dual LANs, 480Mbps USB

### Matrix-518

ATMEL 9620, Linux-ready Box Computer with 2x LANs, 3x RS-232/422/485 TTYs, 2x USB Hosts, 21x GPIOs and 1x Audio Out

- Linux 2.6.29 computing platform with the system
- CPU: AT91 AT91SAM9G20 w/MPU, 400MHz
- Flash: 128MB, NAND type
- SDRAM: 64MB
- DataFlash: 2MB
- micro-SD sockets (up to 32GB)
- Failover mechanism against system crash
- Ethernet: 2x, 10/100Mbps
- TTYs: 3x, RS-232/422/485
- USB Hosts: 2x, USB 2.0 compliant
- Power Input: 9~48VDC
- GPIO: 21-bit and can time for Linux and Windows



- Data Sheet
- User Guide

### Matrix-516

ATMEL 9620, Linux-ready Box Computer with 2x LANs, 3x Terminated RS-485 TTYs, 2x USB Hosts, 21x GPIOs

- Linux 2.6.29 computing platform with the system
- CPU: AT91 AT91SAM9G20 w/MPU, 400MHz
- Flash: 128MB, NAND type
- SDRAM: 64MB
- DataFlash: 2MB
- micro-SD sockets (up to 32GB)
- Failover mechanism against system crash
- Ethernet: 2x, 10/100Mbps
- TTYs: 3x, isolated RS-485, 250Vrms solution
- USB Hosts: 2x, USB 2.0 compliant
- Power Input: 9~48VDC
- GPIO: 21-bit and can time for Linux and Windows



- Data Sheet

Isolated RS-485

社名および商品名は各社の商標または登録商標です。本仕様は改良のため予告なく変更することがあります。

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