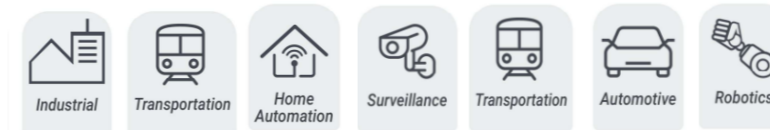# i.Core AM62x

Engicam introduces i.Core Am62x, based on the newest TI®'s AM62 processor, equipped with Arm® Cortex®-A53 @ up to 1.4 GHz processor and Cortex M4F @ up to 400MHz. The low-cost AM62x SitaraTM features display support and 3D graphics acceleration. The extensive set of peripherals and optimized power architecture drive i.Core AM62x well-suited for a broad range of industrial and automotive applications.

TEXAS INSTRUMENTS

HIGHLIGHTS

- Standard EDIMM 2.0
- Suitable for industrial HMI and driver monitoring systems applications
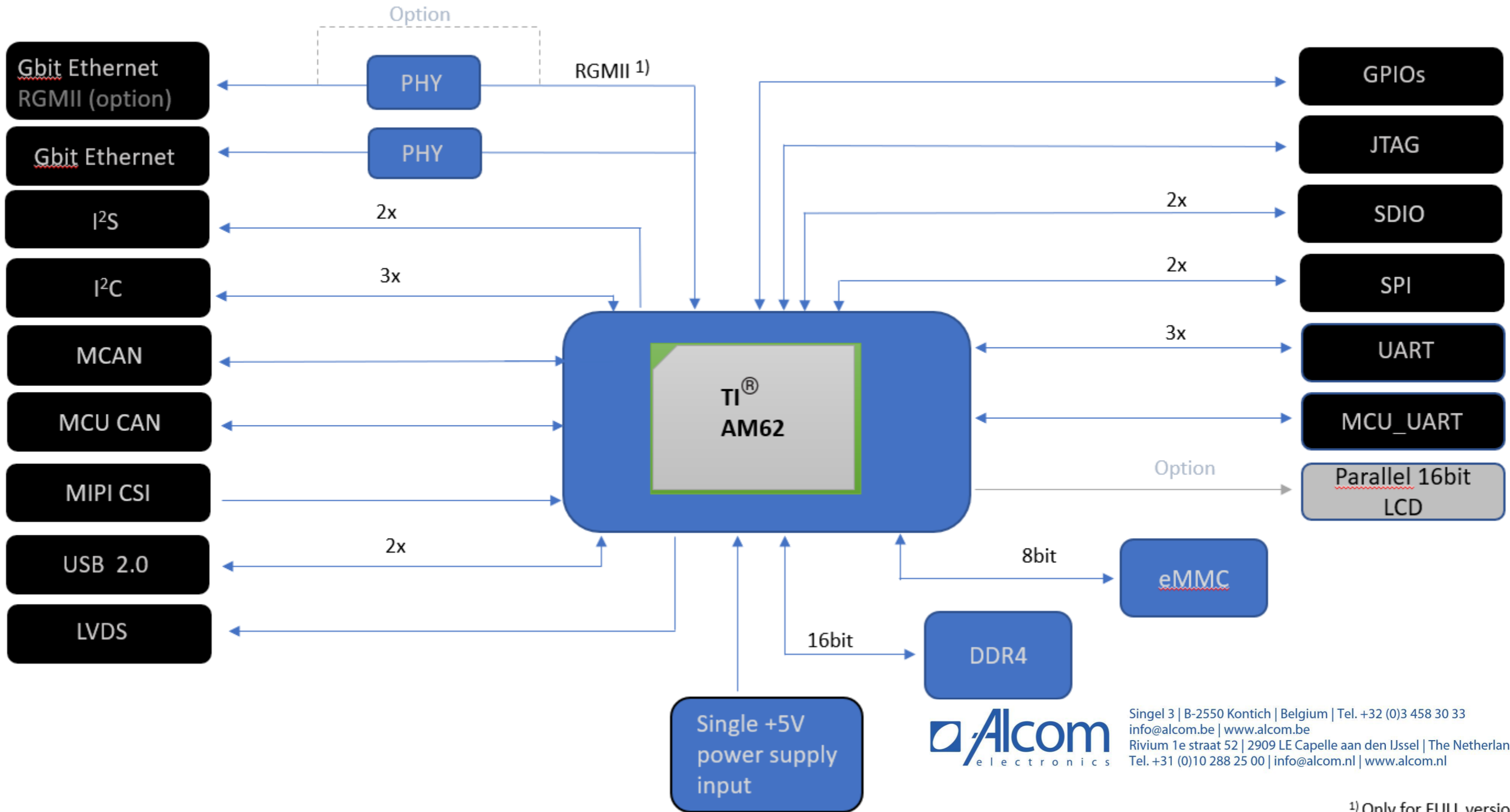- Powerful Quad core A53 @1.4 GHz

APPLICATIONS

Industrial   Transportation   Home Automation   Surveillance   Transportation   Automotive   Robotics

FEATURES

yocto PROJECT

CPU	TI AM62x Sitara	
CORES	Up to 4 Arm Cortex-A53 @ 1.4 GHz and Single-core Cortex-M4F MCU @ 400 MHz.	
MEMORY	Up to 16GB DDR4 @1600MTs	
GRAPHICS	3D GPU, OpenGL ES 3.1, Vulkan 1.2	
VIDEO INTERFACES	• Dual channel LVDS up to 1920x1080 @60fps • MIPI-CSI	
NETWORKING	2x Gb Ethernet interfaces (1x RGMII option available)	
AUDIO	I2S interface	

USB	• 2x USB HOST 2.0	
MASS STORAGE	Starting from 8GB eMMC drive soldered on-board	
PERIPHERAL INTERFACES	UART, I2C, SPI, JTAG, CAN, SDIO, GPIOs, 16 bit parallel LCD	
POWER SUPPLY	+5V DC	
OPERATING SYSTEM	Linux, Yocto, Android	
OPERATING TEMPERATURE*	Industrial qualified	
DIMENSIONS	32 x 67,6 mm	

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

ENGICAM
EMBEDDED SOLUTIONS

BLOCK DIAGRAM

Option

Gbit Ethernet
RGMII (option)

PHY

RGMII [1)]

GPIOs

Gbit Ethernet

PHY

JTAG

I^2S

2x

SDIO   2x

I^2C

3x

SPI   2x

MCAN

TI®
AM62

UART   3x

MCU CAN

MCU_UART

MIPI CSI

Option

Parallel 16bit
LCD

USB 2.0

2x

8bit

eMMC

LVDS

16bit

DDR4

Single +5V
power supply
input

ALcom
electronics

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[1)] Only for FULL version