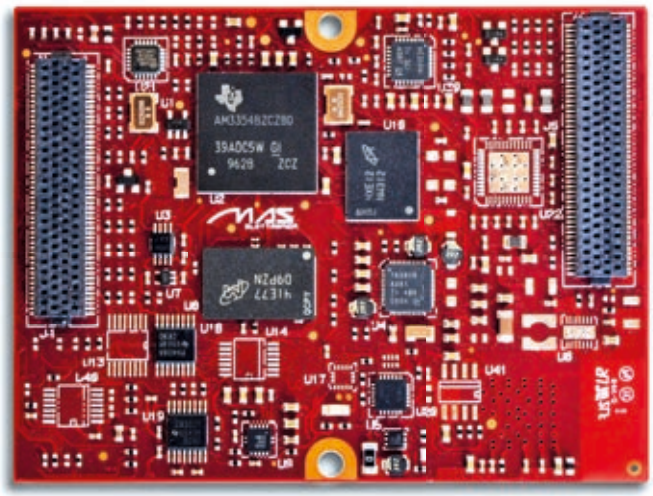
CPU FIAMMA MCAM335X

CLOUD SERVICE

PRU



HIGH PERFORMANCE

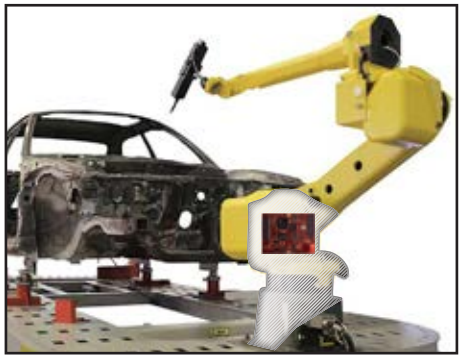
60 mm

80 mm

Processor Sitara™ ARM Cortex™ A8 di Texas Instruments

Software LINUX / ANDROID

APLICATION AREAS:



AUTOMATION

MEDICAL

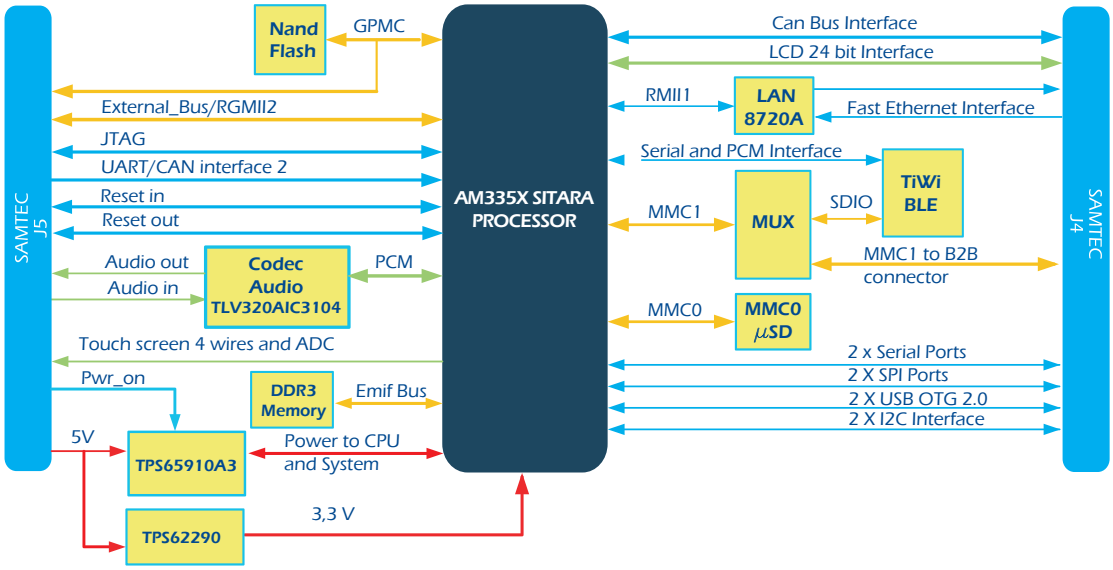
INDUSTRIAL

FIAMMA MCAM335x CPU module

MCAM335x is designed to support industrial, domotic and communication applications with the best tradeoff among cost, reliability and performance. It's based on the proven Texas Instruments processor family Sitara™AM335x ARM Cortex™-A8. The carrier board connection is performed with high reliabilty connectors. Due to its PRU-ICSS (Programmable Real-Time Unit Subsystem and Industrial Communication Subsystem) we are able to offer a single board linux and a Hard Real-Time system.

HMI

CPU FIAMMA mCAM335X



CPU	
CPU name	Texas Instruments AM335x Sitara™ Family
CPU type	ARM® Cortex™-A8
Cores	x1
CPU Clock	up to 1GHz
PRU	For the AM3359 is available the PRU and application software
MEMORY	
Cache	L1: 32KB Instruction, 32KB Data - L2: 256KB with ECC
RAM	512MB-1GB- DDR3 - 606Mb/s
FLASH	256, 512 MByte - NAND
DISPLAY	
Video out	TTL RGB 24bit, up to 2048 x 2048, dot clock up to 126MHz
Touch Panel Interface	Resistive, 4 wire
PERIPHERALS	
SD / MMC	x1 bootable uSD 192Mbit/s, Card Detection Switch
USB	x1 USB2.0 HS host, x1 OTG
UART	x1 RS232 Linux Console, x2 TTL up to 3,6Mb/s
I2C	x2
SPI	x2
RTC	on board with battery backup support
External Bus	External Memory Interface - General Purpose Memory Controller (EMIF-GPMC)
CAN	x2
Analog Inputs	up to 6, shared with Touch Panel Interface
Digital I/O	available, shared with other peripherals
PRU-ICSS	Programmable Real-Time Unit Subsystem and Industrial Communication SubSystem when AM3358 and AM3359 is usedAM3358 is used

AUDIO	
Audio Output / Input	Integrated Stero Codec with Programmable Gain
MULTIMEDIA	
Graphic accelerator	2D/3D graphic accelerator with PowerVR SGX530
NETWORKING	
Ethernet	x1 Fast Ethernet (10/100), x1 Gbit Ethernet (10/100/1000)
WiFi	2,4 / 5GHz, 802.11 b,g,n, antenna connector or internal chip antenna
Bluetooth	Bluetooth 2.1+EDR class 1.5, BlueTooth 4.0 BLE
Ant	ANT ready
SOFTWARE SUPPORT	
OS	Linux 3.14, Yocto, Android Kit Kat
Graphics	QT Embedded
MECHANICAL SPECIFICATIONS	
Dimensions (W x L x H)	60mm x 80mm x 7mm (not including debug connector)
ELECTRICAL SPECIFICATIONS	
Module Power supply	5V, 1-3W depending on configuration
I/O Power supply	1.8V - 3.3V
ENVIRONMENTAL SPECIFICATIONS	
Commercial temperature Range	**0 to 70°C**
Extended temperature range	**-40 to + 85°C**
LONGEVITY	
Minimum availability	2024

Design & Production MADE IN ITALY

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For order or info