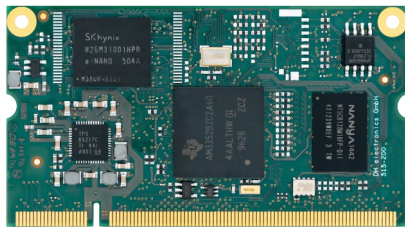


DHCOM AM335x

Pluggable, compatible SOM



Cortex
Intelligent Processors by ARM

HIGH SPEED SOCKET

RGMI (Gbit Ethernet)	1
Sata	-
PCIe	-
MIPI CSI-2 (camera)	-
Display LVDS 2 ^[1]	-
HDMI	-

TECHNICAL DETAILS

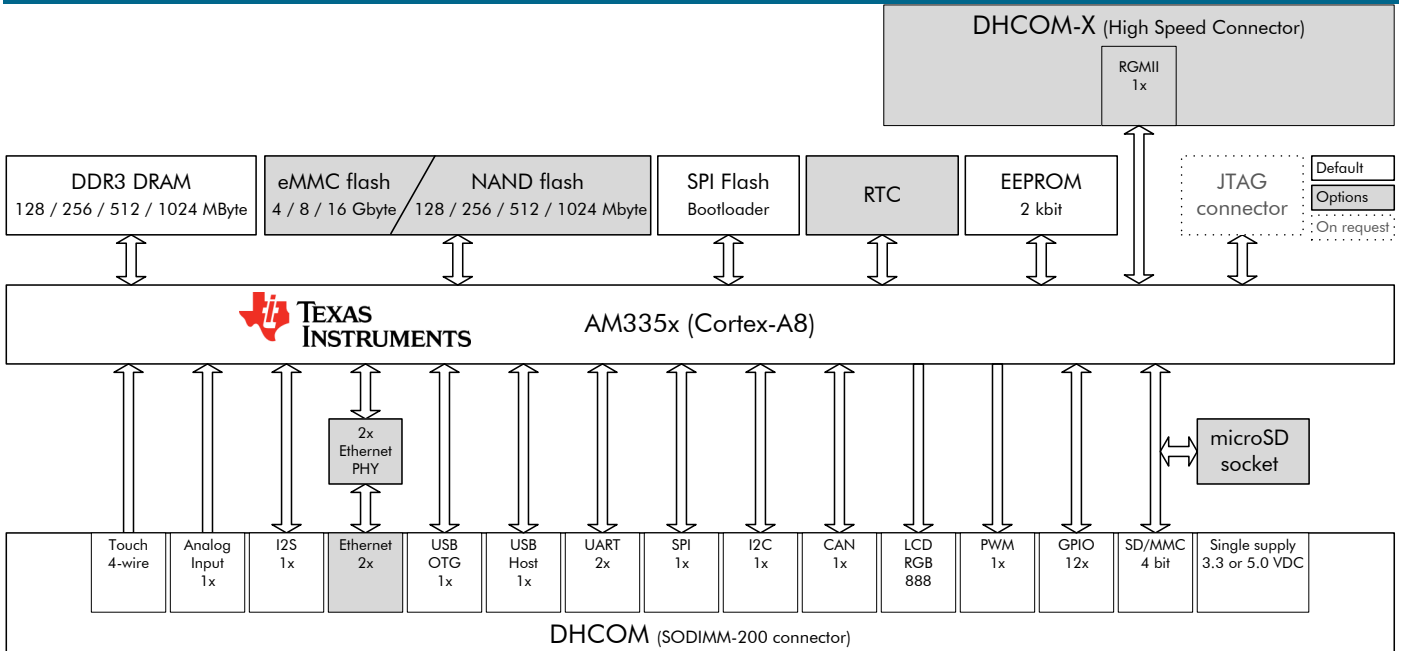
Processor	ARM Cortex-A8 up to 1 GHz
Features	3D graphics accelerator Programmable real-time unit ^[1]
DDR3 DRAM	128 / 256 / 512 / 1024 Mbyte
SLC-NAND flash	0 / 128 / 256 / 512 / 1024 Mbyte
eMMC flash	4 / 8 / 16 Gbyte
E ² Prom	2 kbit
microSD socket	Available on module
Real-time clock RTC	Available on module
Supply	3.3 or 5.0 VDC / typ. 1.5 W
Temperature range	-40 to +85 °C / 0 to 70 °C
Dimensions	67.6 x 36.7 x 8.1 mm
Debug interface	JTAG interface on module
BSPs	Linux Android and WinCE on request

SODIMM-200 SOCKET

Bus interface	-
Ethernet 1	10 / 100 Mbit
Ethernet 2	10 / 100 Mbit
MMC/SD interface	4 bit mode
CAN ^[2]	V2.0B / 1 Mbit/s
UART 1 ^[3]	Rx/ Tx/ Rts/ Cts, up to 3.68 Mbit/s
UART 2 ^[3]	Rx/ Tx up to 3.68 Mbit/s
UART 3 ^[3]	-
SPI 1	max. 48 MHz
SPI 2 ^[4]	-
I2C 1 ^[5]	max. 400 kbit
I2C 2	-
USB host 1	High-Speed
USB host 2	-
USB OTG	High-Speed
CSI (parallel camera)	-
Display RGB	Max. 2048 x 2048 pixels , 24 bit
Display LVDS 1	-
Touch	4-wire
I2S	1
GPIOs	16 IOs
PWM	1x 16 bit
Analog inputs	1x 12 bit ADC converter

^[1] Supports Protocols such as EtherCAT, PROFIBUS, PROFINET, EtherNet/IP™, and more. ^[2] Supports up to two CAN ports (Note: Not DHCOM standard compatible). ^[3] Supports up to five UART ports (Note: Not DHCOM standard compatible). ^[4] Second SPI port on request (Note: Lower number of GPIOs ...). ^[5] Supports up to two I2C ports (Note: Not DHCOM standard compatible).

BLOCK DIAGRAM



ORDERING INFORMATION

Ordering Configurations: DHCM-CPU-Cxxx-Rxxx[-Fxxx][-E][-SD][-RTC][-HS]-X-01D2

CPU	AM3352, AM3354 (with graphics accelerator), AM3359 (with graphics accelerator, PRU [programmable real-time unit] and EtherCAT® slave support)
Cxxx	300 MHz: C030, 600 MHz: C060, 800 MHz: C080, 1000 MHz: C100
Rxxxx	128 Mbyte: R012, 256 Mbyte: R025, 512 Mbyte: R051, 1024 Mbyte: R102
X	Commercial temperature range (0 °C - 70 °C): C, Industrial temperature range [-40 °C - 85 °C]: I Note: Industrial temp. range for eMMC version is -25 °C - 85 °C. Please contact us for -40 °C - 85 °C version.
01D2	DHCOM Revision, SODIMM200 socket

Options

[-Fxxx]	128 Mbyte NAND: F0012, 256 Mbyte NAND: F0025, 512 Mbyte NAND: F0051, 1024 Mbyte NAND: F0102, 4096 Mbyte eMMC: F0409, 8192 Mbyte eMMC: F0819, 16384 Mbyte eMMC: F1638
[-E] or [-E2]	1x 100 Mbit Ethernet: E, 2x 100 Mbit Ethernet: E2
[-SD]	microSD socket
[-RTC]	Low power temperature compensated real time clock (instead of CPU internal RTC)
[-HS]	High speed interface connector

Item number

HA00016

Model (other configurations on request)

DHCM-AM3352-C060-R051-F0409-E2-SD-RTC-I-01D2

Product description

DHCOM AM3352 with 600 MHz, 512 Mbyte DRAM, 4 Gbyte flash, 2x Ethernet, microSD slot, RTC, res. Touch and industrial temp. range