

# PCM-C3530 Evaluation Kit

TI OMAP35 SBC with  
Windows® Embedded CE 6.0



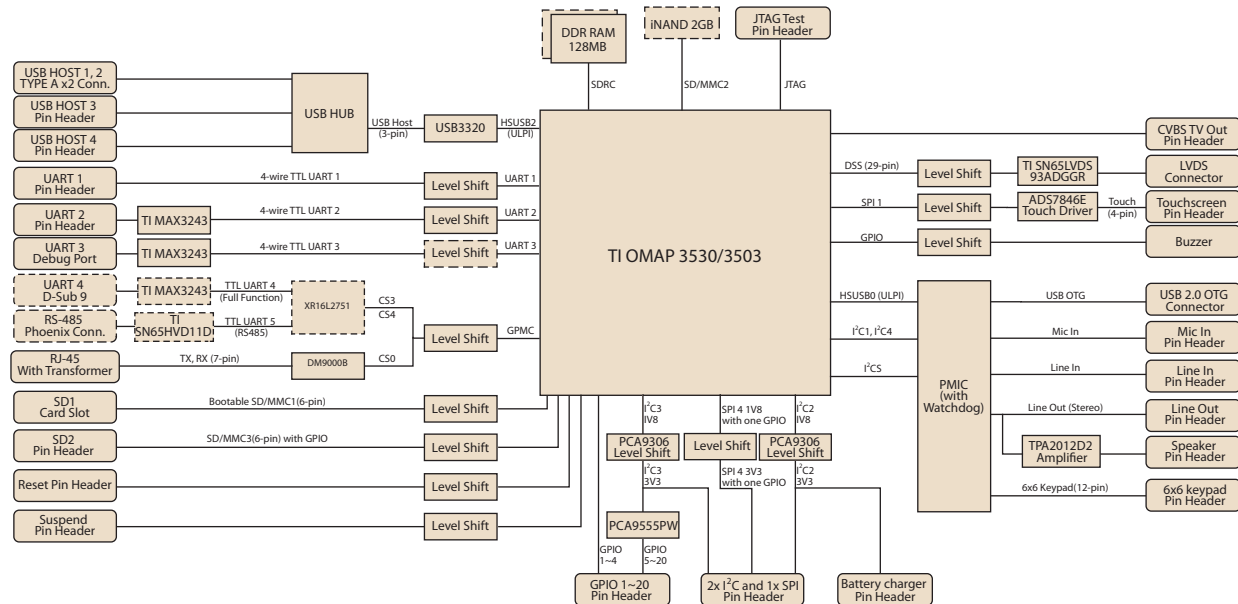
## Features

- TI OMAP35 series @ 600 MHz high performance/application processor (Cortex™-A8 based)
- Supports OpenGL ES 1.1 & 2.0, OpenVG 1.0 and Direct3D
- Video supports D1 resolution directly and up to 720P
- Built-in 430 MHz TMS320C64x+™ DSP Core
- Power DC input 10-24V±5%; Power Consumption: Standard 2W (max. 3W)
- Extended temperature available as optional models
- Compact size for system integration easily
- Support WinCE 6.0 (default), Linux 2.6 by project request

## Specifications

Motherboard	PCM-C3530
CPU	TI-OMAP 3530 Cortex-A8 600 MHz
DSP	Built-in 430 MHz TMS320C64x+™ DSP Core support
2D/3D Accelerators	Supports OpenGL ES 1.1 & 2.0, OpenVG 1.0 and Direct3D
System RAM	256 MB Mobile DDR
Onboard Flash	2 GB
Graphic Chip	CPU internal 24-bit LCD controller
Brightness/Backlight Control	Yes
LCD Interface	24-bit LVDS LCD connector
Inverter	5V/12V Inverter
Touchscreen	4-wire resistive type interface by ADS7846
I <sup>2</sup> C Interface	2 (pin header)
SPI Interface	1 (pin header)
Keypad	6 x 6 matrix keypad (pin header)
GPIO	20 pins 3.3V TTL level GPIOs (pin header)
UART	RS-232 x 3 (1 thru DB-9, 2 thru pin header) RS-485 x 1 (box header), TTL x 1 (pin header)
USB	USB 2.0 x 4 (Type A x 2, pinheader x 2)
USB OTG	USB HS OTG x 1 (OTG connector)
Audio	MIC-in, Line-in, Line-out, Speaker-out (pin header)
Ethernet LAN	10/100 Mbps (RJ-45)
SD/MMC	2 (SD slot x1+ pin header x1)
Buzzer	Yes
RTC	Yes
Watchdog Timer	Yes
Power Input	10 V ~ 24 V <sub>DC</sub> (±5%)
Power Consumption	Standard 2W (max. 3W)
Power Management	Standard / Idle / Suspend mode
Size	90 x 120 x 17 mm
PCB Thickness	1.6 mm, 8 layers
Operating Temperature	0 ~ 60° C (-20 ~ 70° C, -40 ~ 85° C by component change)
Operating Humidity	5 ~ 95 % relative humidity, non-condensing
Weight	92g
Wireless (optional)	Thru SDIO /USB interface
Software Support	Support WinCE 6.0 (default), Linux 2.6 by project request

## Block Diagram



## Packing List

Part Number	Description	Quantity
PCM-C3530-668B0E	TI OMAP3530 256MB RAM w/ 2GB Flash	1
96LEDK-A070WV32RB1	LCD-LED Backlight 7" LVDS RGB 97G070V1N0F-2	1
170000194	Touch Cable	1
1700014418	LVDS Cable	1
1700019577	LCD Backlight Cable	1
1757002944	Adapter 100-240V 90W 19V 4.74A W/PFC 9NA0900508	1
1700001524	Power cord (USA)	1
1700003414	Button cable	1
1703100153	A Cable D-SUB 9P (M)/2*5P-2.0 15cm	2
1700091002	M Cable D-SUB 9P (F)/D-SUB 9P (F) 100CM	1
1700019129	USB type A HOST	1
1700019077	mini usb cable (Client)	1
1700019076	mini usb cable (Host)	1
1654909900	Terminal connector 9P Female	1
1652002209	Plug-in block DIP 2P (F) MC421-38102 DECA	1
968QCE60P0	WinCE6.0 License	1
ADAM-4520I-AE	Wide-Temp RS-232 to RS-422/485 Converter	1
SQF-ISDS2-2G-ETE	SQFlash SD Card SLC 2G, 2CH (-40-85° C)	1

## Ordering Information

### PCM-C3530DK-B00E Design-in Package

Part No.	Description
PCM-C3530DK-B00E	Evaluation kit for TI OMAP3530 w/ WinCE 6.0 256 MB DDR SDRAM, 2 GB flash
Power cord	1700001524 for 3-pin USA standard power cord 170203183C for 3-pin Europe standard power cord 170203180A for 3-pin UK standard power cord