

SBC-X300

Small and powerful Embedded CoM

The SBC-X300 is a small single board computer based on PXA300 CPU architecture. It is implemented by CM-X300 module providing most of the functions, including an integrated Bluetooth and wireless LAN (WiFi) interfaces. The SB-X300 carrier board providing connectors and several additional functions. The rich features set of the SBC-X300 is customizable according to the price / performance targets of the user's application.

The SBC-X300 contains an electrical interface and slot for MMC/SDIO extension cards, which may be inserted and secured in the slot with no additional mechanical means, extending the system with capabilities such as a larger solid state disk, GPS or GSM modem.

Power supply options of the SBC-X300 enabling its integration in mobile applications powered by a rechargeable battery. Charger and battery management support is provided onboard.



WLAN / WiFi
Bluetooth

KEY FEATURES

- Single Board Computer implemented by combination of CM-X300 module and SB-X300 baseboard
- Marvell XScale PXA300 CPU @ 624 MHz, 128 MB SDRAM, 512 MB Flash Disk
- WLAN / WiFi 802.11b/g interface
- Bluetooth interface
- 800 x 600 graphics controller with connectors for LCD panel
- Video input
- 3 serial ports with RS232 / RS485 / RS422 driver options
- Host and slave USB ports including keyboard & mouse support
- Touchscreen interface
- Keypad and GPIO connectors
- Sound - speakers & microphone
- 100 Mbps Ethernet port
- SDIO / MMC socket

- RTC with lithium battery
- Power supply options: rechargeable battery and charger connector, or 5VDC power supply.

SOFTWARE

- Linux 2.6.26
- Windows CE 6.0

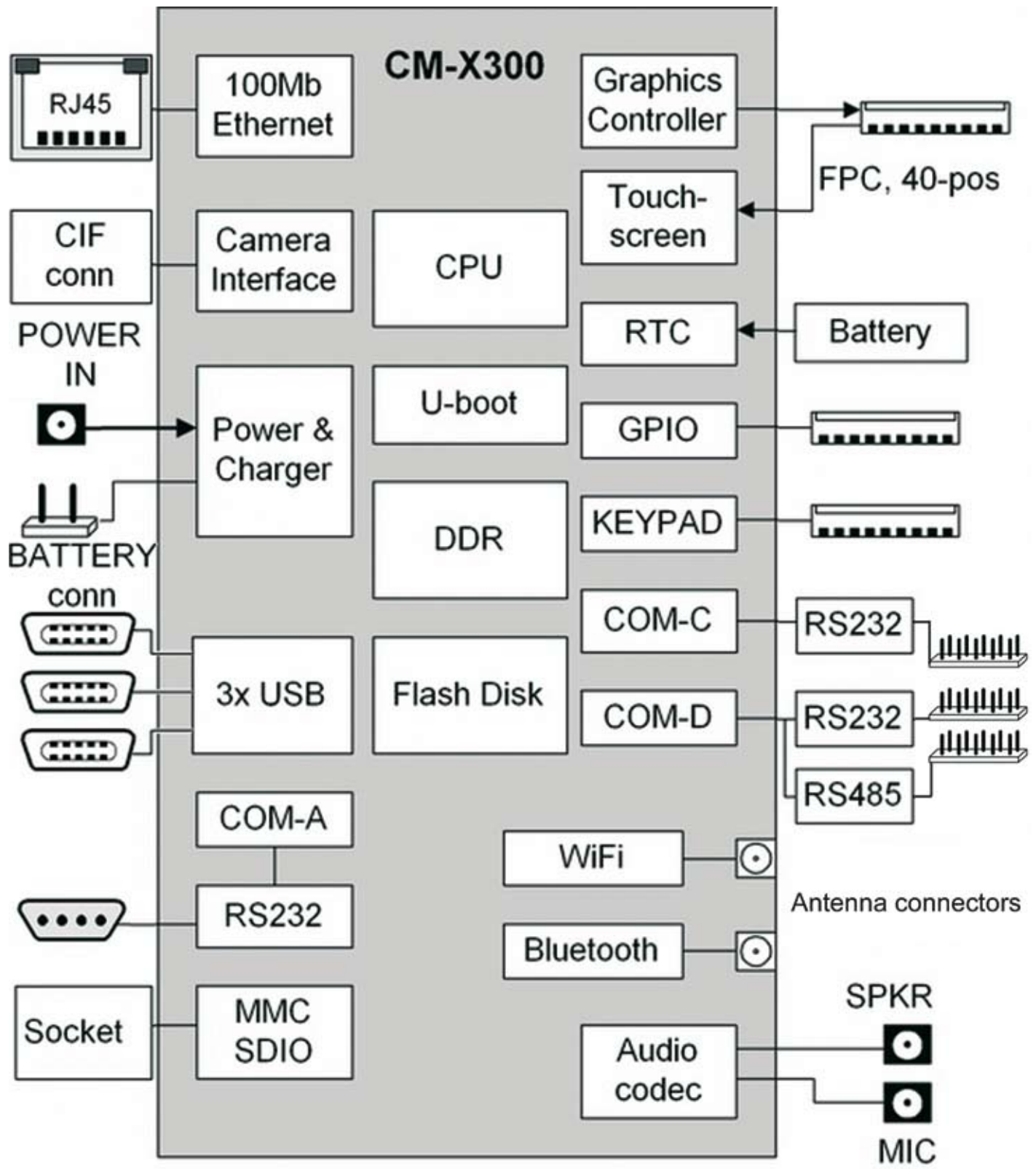
www.systemtech.se

System Technology Sweden AB
Box 304
581 02 LINKÖPING

E-post:
Telefon:
Fax:

sales@systemtech.se
013 - 35 70 30
013 - 14 05 30





CM-X300 Features

SB-X300 doesn't have assembling options. The "CM Option" column specifies the P/N code of CM-X300 required to have the particular feature.

"+" means that the feature is available always.

Feature	Specification	CM
		Option
CPU SDRAM Flash Disk	See Feature List of CM-X300 module	
COM-A	Full modem controls, RS-232 levels, RJ11 or DB9 connector	+
COM-C	Full modem, RS 232/422/485 levels, standard 10-pin header	+
COM-D	Rx/TX, RS-232 & TTL levels, on 100-mil header	+
Ethernet	One 100 Mbps Ethernet port. DM9000 controller. RJ-45 connector and activity LED's	E
LCD Panel	STN and TFT panel support. 40-pos FPC connector for direct interface to certain TFT panels	+
GPIO	42 lines, on common 100-mil header.	+
Host USB	Two host ports, 12 Mbps, front panel connectors. One of ports is shared with Bluetooth interface.	+
Slave USB	Slave USB-2 (480 Mbps) dedicated port	+
Touch Panel	Part of Wolfson W9712L controller for resistive panels. Interface to LCD panel	AT
Sound I/O	Part of Wolfson W9712L controller, microphone (mono), Line input and Speakers (stereo) jacks	AT
RTC Battery	Real time clock operated from on-board lithium battery	+
WiFi	WiFi interf, including on-board antenna & connectors, provided by CM-X300	W
Bluetooth	Bluetooth interf, including on-board antenna & connectors, provided by CM-X300	W
Video Input		+
SDIO / MMC		+

Electrical, Mechanical and Environmental Specifications

Supply Voltage	High efficiency switched power supply. Support of sleep mode. Unregulated 3.3 to 4.5 volt input from wall adapter or battery
Power Consumption	2W to 5W in full activity, depending on CPU speed and selected features Below 50mW in sleep mode
Dimensions	
Operation temp (case)	Commercial: 0° to 70° C Extended: -20° to 70° C Industrial: -40° to 85° C.
Storage temperature	-40° to 85° C
Relative humidity	10% to 90% (operation) 5% to 95% (storage)
Shock	50G / 20 ms
Vibration	20G / 0 - 600 Hz
MTBF	> 100,000 hours

