



● Aplicom C-series can be used together with Aplicom display or as an IP communication server with PDA.

Open architecture platform with high reliability and flexibility

The Aplicom C-series is a family of compact and modular communications computers for fleet telematics and telemetry applications. The C-series provides a fully programmable platform for various applications and offers an extensive set of peripheral and sensor interfaces.

The Aplicom C-series comprises of different models, each having versatile IO connectivity, CAN bus interface and 2 standard serial ports. C-series can be delivered with a touch screen display, internal GPS receiver as well as GRPS modem. The C-series can be used alone or as an IP server with portable terminals and bar code readers. It has also voice call, WLAN and Bluetooth options.

The heart of the C-series software architecture is a real-time multitasking operating system that enables efficient performance in a real-life vehicle environment. The C-series is fully programmable using C language and the Aplicom AC Tool kit, which provides an extensive library of functions and utilities for the programmer. The hardware resources can thus be used in the most effective way. Java programming environment is an other alternative for a system developer.

Aplicom C-series has gone through extensive tests for low and high temperatures, vibrations and other environmental conditions to withstand the vehicle and other demanding environments.

C-series



Front view



Back view

Technical Data

Available models	C 1108 w/1-wire C 1107 w/RS485 C 1104 w/RS232	Connections	42-pin automotive connector containing: - CAN-bus - I ² C-bus - 2 serial ports - 4 pcs 5 VDC digital / A / D inputs (10 bits) - 2 pcs 5 VDC digital InputOutput SW select, Inputs (10k pulled up) - 2 open collector relay control outputs - 3 pcs pulse counters (100 kHz) - SW controlled power output 10.5...32 VDC unregulated, max. 500 mA - Ignition sense - Power supply - HF speaker (option)
Operating system	Multitasking real time operating system (OS95A) - In built warm boot mechanism	Internal connectors	Alternative interfaces in different product models: - 1-wire - RS485 - RS323 - K-line
Main processor	ARM7TDMI core, 32 bit, 24 MHz	Optional connectors	1 internal serial port for GPS 1 internal serial port for optional module board / GPRS module
Memory	SRAM 1024 kB (battery back-up) Flash 1024 kB (exp. up to 16 Mbyte) EEPROM 1 kB for ID purposes	Software	SMA for GPS antenna SMA for GSM antenna RPSMA for WLAN SIM-card reader HF microphone
Application development	Programmed in the C language with Aplicom AC Tool Kit and ARM development tools or with Java (Aplicom Regatta)	Accessories	Boot-loader SW, delivery application, Regatta C client for Regatta
Real time clock	Built-in real time clock Date, Time, Wake up	Installation	Cables With four screws (included in the shipment)
Dimensions	156 (W) x 50 (H) x 166 (D) mm	APPROVALS	
Weight	Approx. 650 g	CE marking	According to directive 89/336/EEC (EMC directive)
Housing material	Extruded aluminium / ABS-PC (marked for recycling)	e type approval	According to directive 95/54/EC (automotive EMC directive)
Input voltage	10.5...32 VDC, reverse polarity voltage protection		
Power consumption	200 mA typical at 12 VDC peak current 1,5 A max. < 1 mA in sleep mode at 12 VDC - Application controlled power management		
Controls	ON/OFF switch, reset switch, DIP switches for back-up battery, boot-loader and application use		
Indicators	3 bi-colour LEDs, controllable by application software		
Operating temp.	-25°C...+55°C		
Storage temp.	-30°C...+65°C		
Relative humidity	5...95%		
Options	GPRS quad band modem GPS receiver WLAN module 802.11 b/g (serial point to point connection) Voice Call (Hands free) Aplicom DT 1000 display Bluetooth Driver ID (iButton) K-line (also for digital tachograph) OBD II		

Specifications subject to change without notice. February 2007. Code: M100271