

# APLICOM C-SERIES

**Open architecture platform with high reliability**

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 APPLICOM 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 GPRS 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 enable 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.

APPLICOM 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.

[www.aplicom.com](http://www.aplicom.com)

**Aplicom**<sup>®</sup>  
MOBILE DATA FOR PROFESSIONALS

Aplicom Oy | Sinikalliontie 12 | FI-02630 Espoo, FINLAND  
Tel: +358 10 841 9400 | Fax: + 358 9 6831 1350 | [info@aplicom.fi](mailto:info@aplicom.fi)

# Technical data

## Aplicom C-series

<b>Available models</b>	C 1108 w/1-wire C 1107 w/RS485 C 1104 w/RS232
<b>Operating system</b>	Multitasking real time operating system (OS95A) - in-built warm boot mechanism
<b>Main processor</b>	ARM7TDMI core, 32 bit, 24 MHz
<b>Memory</b>	SRAM 1024 kB (battery back-up) Flash 1024 kB (exp- up to 16 Mbyte) EEPROM 1kB for ID purposes
<b>Application development</b>	Programmed in the C language with Aplicom AC Tool Kit and ARM development tools or with Java (Aplicom Regatta)
<b>Real time clock</b>	Built-in real-time clock Date, Time, Wakeup
<b>Dimensions</b>	156 (W) x 50 (H) x 166 (D) mm
<b>Weight</b>	Approx. 650 g
<b>Housing material</b>	Extruded aluminium / ABS-PC (marked for recycling)
<b>Input voltage</b>	10,5...32 VDC, reverse polarity voltage protection
<b>Power consumption</b>	200 mA typical at 12 VDC peak current 1,5 A max. < 1 mA in sleep mode at 12 VDC - Application controlled power management
<b>Controls</b>	ON/OFF switch, reset switch, DIP switches for back-up battery, boot-loader and application use
<b>Indicators</b>	3 bi-colour LEDs, controllable by application software
<b>Operating temperature</b>	-25°C...+55°C
<b>Storage temperature</b>	-30°C...+65°C
<b>Relative humidity</b>	5...95%
<b>Options</b>	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

<b>Connections</b>	42-pin automotive connector containing: - CAN-bus - I <sup>2</sup> C-bus - 2 serial ports - 4 pcs 5 VDC digital / A/D inputs (10 bits) - 2 pcs 5 VDC digital input/output 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)  Alternative interfaces in different product models: - 1-wire - RS485 - RS232 - K-line
<b>Internal connectors</b>	1 internal serial port for GPS 1 internal serial port for optional module board / GPRS module
<b>Optional connectors</b>	SMA for GPS antenna SMA for GSM antenna RPSMA for WLAN SIM-card reader HF microphone
<b>Software</b>	Boot-loader SW, delivery application, Regatta C client for Regatta
<b>Accessories</b>	Cables
<b>Installation</b>	With four screws (included in the shipment)
<b>Approvals</b>	
<b>CE marking</b>	2004/108/EC (EMC directive)
<b>e-type</b>	2004/104/EC (automotive EMC)