

JANUS REMOTE COMMUNICATIONS

400AP Cellular SBC Gateway Series

Description

The Janus 400AP is a powerful, Single Board Computer with Cellular Technology housed in an aluminum enclosure. Available in 3G, and 4G LTE cellular versions, as well as WLAN variations, the 400AP products are ideal for use in all wireless applications that require advanced processing and robust connectivity. External connectors allow the customer to choose the precise antenna for their application needs.



Features

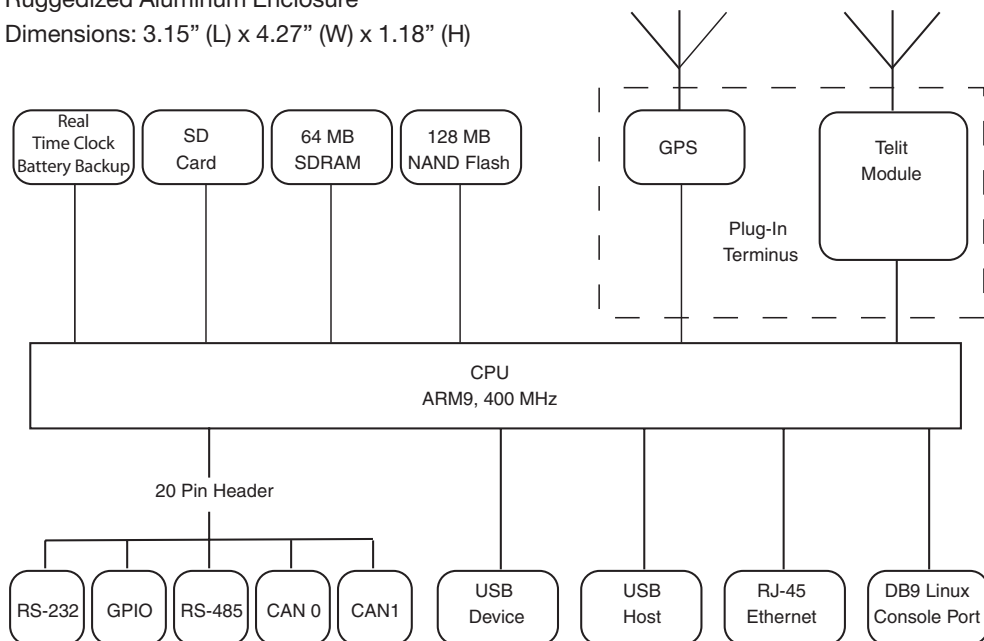
- ARM9™ Processor capable of running embedded Linux™
- 128 MB of NAND Flash
- 64 MB of SDRAM
- GSM, CDMA, HSPA
- 802.3 Ethernet 10/100
- USB Host Port
- Externally exposed RS-232 and RS-485 ports
- CAN Interface (2 Channels)
- Embedded GPS
- Six Exposed GPIOs
- SD Card
- RTC with Battery Backup
- Ruggedized Aluminum Enclosure
- Dimensions: 3.15" (L) x 4.27" (W) x 1.18" (H)

Benefits

- Quick-to-market solution
- Increased reliability from a proven hardware platform
- Uses Linux-based open source software for simplified development
- Cost-effective solution to custom manufacturing
- Easily adapts to future technology



Making machines talk.



400AP Block Diagram

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400AP Cellular SBC Gateway



Hardware Specifications

Processor & Memory

- 400 MHz ARM9™ CPU
- 128 MB NAND Flash
- 64 MB SDRAM

External Interfaces & Connectors

- Power Input: 7 to 26 Vdc
- Connectors: DB-9, USB 1.1, RJ-45 10/100 Ethernet, GPS MCX female and GSM/CDMA SMA female
- LEDs for power, cellular link status, Ethernet link, and speed
- 1 programmable LED for application specific use
- SD Card

Internal Peripherals

- RTC (Real Time Clock) with battery backup
- Full GPS receiver
- GSM/CDMA/HSPA Cellular Options
- Debug serial console port
- 802.3 Ethernet 10/100
- CAN
- RS-232
- RS-485 configured for J1708
- USB Host
- SD Card

Ordering Information

LTE400AP	V500	T	A	G	F	N
Cellular Terminal HSPA+ HSPA400AP LTE LTE400AP	Carrier Certified & Version HSPA+ V100 = AT&T w/GPS LTE V100 = AT&T CAT3 V300 = Verizon CAT3 V600 = Verizon CAT1 V700 = AT&T CAT1	Modem Provider T = Telit	Firmware A = Standard	Connector G for GSC U for U.FL	Voltage F = Fixed V = Variable <i>Note 1</i>	Config Options N = No Config P = Positioning A = Activation S = SIM <i>Note 2</i>

Example: Part Number – **LTE400APV600TAGFN** =
 LTE Intelligent Cellular Terminal; Verizon CAT 1 Certified; Telit Modem; Standard Firmware with a GSC Connector with a Fixed Voltage with no configuration options.

Contact Sales for Additional Special Order Options
 Dave Jahr: djahr@janus-rc.com | 630-499-2121

Notes:

- The original Plug-In products have a fixed interface voltage of 2.85 V. The UART, TRACE, PWRMON, and GPIO pins 3-7 operate at an I/O interface level of 2.85 V. The DC bias on the GPS antenna is 2.85 V, and Vaux (pin 48) provides a 2.85 V source of up to 100mA when the cellular radio is enabled, e.g. when PWRMON is high. The new version allows the option of a variable (user specified) interface voltage. The former USB_ID pin 30 is now designated as VL_IN and serves as a reference to set the interface voltage. If this pin is left unconnected, the modules will behave the same as the original version and maintain the 2.85 V levels on the affected signals. If the user applies a voltage level to the VL_IN pin between 1.8 V and 5.0 V, then the affected signals will operate at that VL_IN voltage level. If an original 910CF board is used in a circuit design that supports the new VL_IN pin by applying a voltage to that pin, it will still operate at 2.85 V levels. If a new version board is used in a circuit designed to support the original board, it will behave identically to the original board with 2.85 V levels as long as there are no connections made to pin 30. If external circuitry is connected to pin 30, contact Janus to evaluate the design.
- Config Options: Provisioning is turning on a device on the network. Activation is assigning MEID's to a customer account. SIM designation is for installation of the SIM



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 See website for latest revision. Not intended for life support applications.