CST ELECTRONICS (PTY) LTD

concept news

october 2010

Calvus Penta-band SMD antenna.

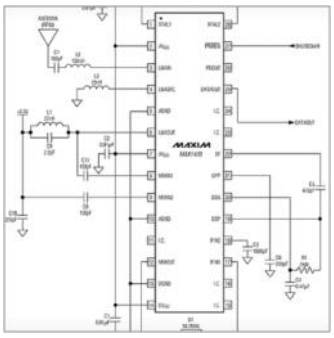
High-performing standard cellular SMD antenna.

Calvus A10340 penta-band antenna is a surface mountable version of Antenova's popular Flavus snap-in cellular antenna suitable for GSM, GPRS and UMTS applications and also covers the GSM850/900/1800/1900 and WCDMA frequencies. Calvus is a very compact 27 x 8 x 3.2 mm3 size antenna intended for surface mounting and requires minimal ground plane to operate efficiently.

Calvus is suitable for an extensive range of embedded cellular applications such femto base stations, vehicle tracking, remote monitoring and other M2M applications.

Read more at Antenova

112dB Sensitivity, 300MHz-450MHz super-het receiver has 50dB of integrated image rejection.



The MAX1470 is a fully integrated low-power CMOS superheterodyne receiver for use with amplitude-shift-keyed (ASK) data in the 315MHz band. With few required external components, and a low-current power-down mode, it is ideal for cost- and power-sensitive applications in the automotive and consumer markets.

The chip consists of a 315MHz low-noise amplifier (LNA), an image rejection mixer, a fully integrated 315MHz phase-lock-loop (PLL), a 10.7MHz IF limiting amplifier stage with received-signal-strength indicator (RSSI) and an ASK demodulator, and analog baseband data-recovery circuitry.

The MAX1470 is available in a 28-pin TSSOP package.

Read more at Maxim

XPort® – build serial to ethernet connectivity and control into your products, quickly and simply.

XPort® is a compact, integrated solution to web enable virtually any device with serial capability.

By incorporating XPort to a product design, manufacturers can quickly and easily offer serial to Ethernet networking capability as a standard feature so equipment can be accessed and controlled over the Internet.

Read more at Lantronix

Low power Wi-Fi module family.

The GS1011M family of fully certified modules offers a quick, easy and cost effective way for device and appliances manufacturers to add Wi-Fi capabilities to their products. The module provides a serial UART or SPI interface, enabling connection to any embedded design utilizing a 8/16/32-bit microcontroller via simple commands.

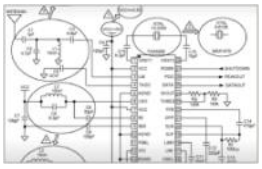
The GS1011M is an ideal solution for organizations with limited or no Wi-Fi or RF expertise, as it not only dramatically reduces RF design time but also removes the burden of testing and certification, allowing customers to focus on their core application, product or expertise. The module supports data rates up to 11 Mbps, is compliant with 802.11b and meets regulatory and Wi-Fi Alliance requirements.

Read more at Gainspan

APPLICATION NOTES

How to modify an existing design from a TDA5200 or TDA5201 to a MAX1470 superheterodyne receiver

Read more here.



If you have been looking into modifying your existing Infineon receiver board with a MAX1470 to take advantage of its unique features, this app note is for you. Figure 1 shows a typical TDA5200/TDA5201 based circuit tuned to receive 433.92MHz signals, and the four simple steps needed to upgrade this TDA5200/TDA5201 receiver board to the MAX1470.

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