


Embedded USB dual-role system for communication with mobile devices

Ducloux, J., Petrashin, Pablo Antonio , Lancioni, Walter José and Toledo, Luis Eduardo (2011) *Embedded USB dual-role system for communication with mobile devices*. In: Argentine School of Micro-Nanoelectronics, Technology and Applications.

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Resumen

The project involves the development of an electronic device that is able to communicate locally with mobile devices using a USB interface, such as, cell phones, netbooks / notebooks and tablets. In addition, it must acquire data from sensors and use the remote communications capability of these mobile devices to send the acquired data to a central server. To do this, the module must have capabilities for a USB host and device, as well as AD conversion and serial interfaces for sensors. Today, we have developed a module with USB embedded host capability, establishing a local connection with a cell phone with a USB interface that can send text messages as a means of remote communication, implementing AT commands. This module also implements a USB device to communicate with mobile devices capable of hosting (netbooks / notebooks, tablets), which for now are only used for configuration and data acquisition

Tipo de documento: Documento de conferencia (Artículo)

Palabras clave: CDC. Device. Dual-role. Host. PDU. SMS. USB.

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