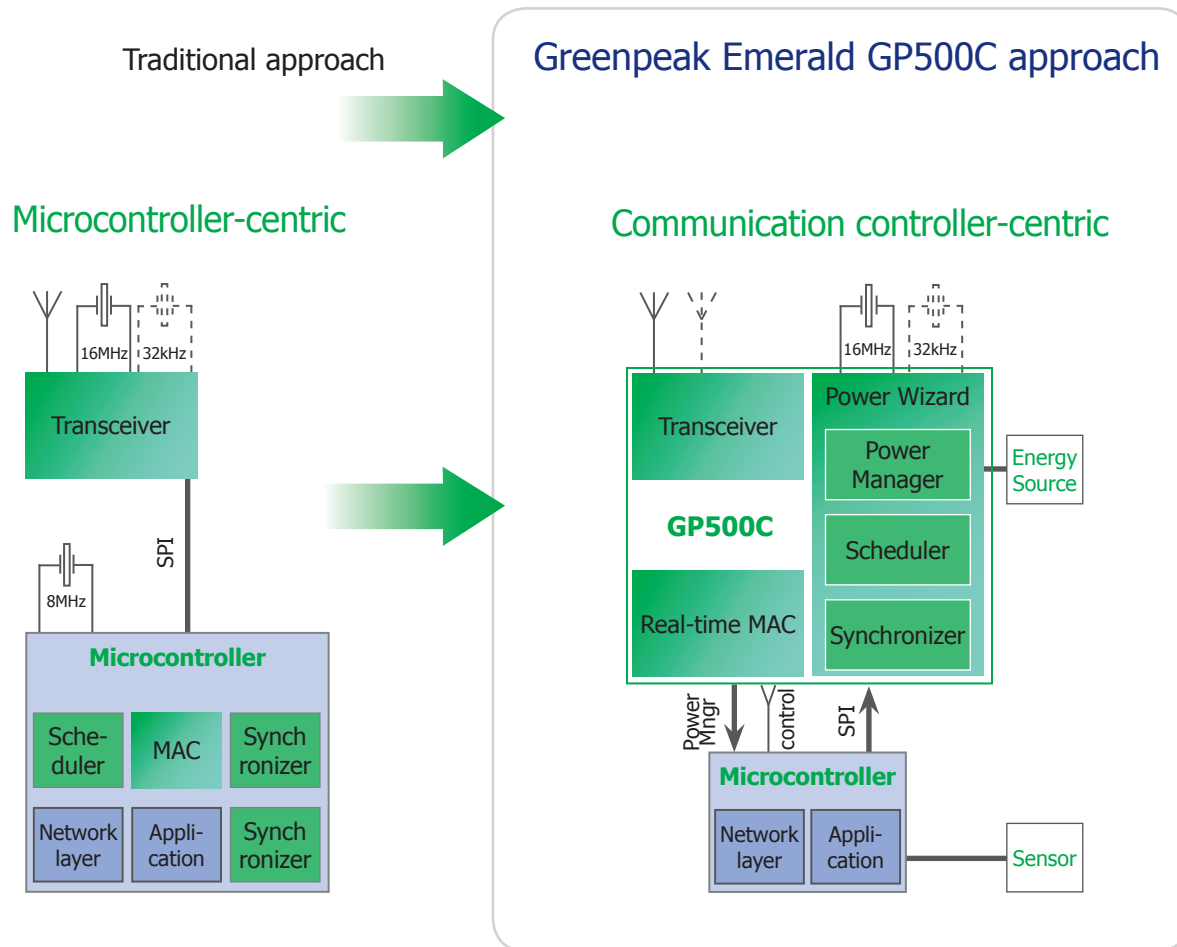




# The Emerald GP500C Communications Controller Architectural Concept



The Emerald GP500C has a ground-breaking architectural concept. It is a communications controller that incorporates a transceiver with a fully integrated communications layer and an on-chip energy manager. Unlike traditional solutions, the Emerald GP500C device is an "autonomous transceiver" able to drive and control the data communication instead of being driven by a microcontroller. This allows the GP500C to greatly reduce energy consumption and enables end nodes to run on energy harvesting. GP500C-driven networks become truly wireless, free of power cords and free of batteries.