Where the communications device comprises a memory, the memory may comprise digital audio data and the speaker takes plays that digital audio data.

The communications device may communicate wirelessly between both the information source and at least one said receiving device. The transmitter may transmit information to the information source.

The communications device may communicate wirelessly between both an information source and at least one said receiving device. The receiver may receive information from the receiving device. The one or more receiving devices may include a removable memory device. The removable memory device may be a Secure Digital (SD) card. The removable memory may be detachably connectable with a socket by which it communicates with the communications device.

The communications device may comprise one or more device connectors, the or each device connector comprising a general purpose input/output device.

Advantageously, where the communications device facilitates AC to DC conversion, it can be used to convert an entire circuit downstream of the communications device (i.e. in a position to receive power from the communications device) to DC. This enables one or more devices, such as LEDs, to be installed in the DC circuit without requiring a respective AC to DC converter in each device.

According to an aspect, there is provided a communications device for forming a network node between at least two devices or systems, comprising: a power supply connector comprising a power module, wherein the power module is for connecting to a power supply in a light socket of a lighting system thereby to power the communications device, a power line communication (PLC) module connected to the power module, wherein the PLC module is configured to perform data communication over power lines of the power supply; and a main module powered by the power module and coupled to the PLC module, wherein

the main module is further connected to one or more radio frequency (RF) modules and one or more device connectors, wherein the one or more device connectors are configured to detachably and electrically connect to one or more external modules; wherein upon receipt of one or more first data packets from a first device or system over the power lines at the PLC module, the one or more first data packets are transmitted to the main module for redistribution, and wherein the main module is configured to transmit the one or more first data packets to the one or more RF modules for wireless transmission to a second device or system; and, wherein upon receipt of one or more second data packets from the second device or system wirelessly received at the one or more RF modules, the one or more second data packets are transmitted to the main module for data redistribution, wherein the main module is configured to transmit the one or more second data packets to the PLC module for transmission over the power lines to the first device or system; wherein the communications device depends from the light socket by the power supply connector; and wherein the PLC module is coupled with Internet connection over the power lines. wherein the communication device further comprises one or more lighting modules that are powered by the power module and connected to the main module, wherein when the one or more first data packets comprises control data for controlling illumination of the one or more lighting modules, the main module is configured to transmit the one or more first data packets to the one or more lighting modules.

BRIEF DESCRIPTION OF THE DRAWINGS

Preferred embodiments of the communications device, and associated systems, will now be described, by way of non-limiting example only, with reference to the accompanying drawings in which: