



TRANSLATION FOR REFERENCE ONLY

July 22, 2016

(This English translation was released on July 27, 2016)

For Immediate Release

Company Name	Aplix IP Holdings Corporation
Representative	Ryu Koriyama, CEO & Representative Director (Code: 3727, TSE Mothers)
Inquiries	Kengo Nagahashi, Director (Tel: 050-3786-1715)

Aplix's IoT Analog IC Supports ARM's CPU for IoT
-- Aplix's IoT solution is now installed
in a foreign manufacturer's panel heaters for Europe --

Aplix IP Holdings Corporation (headquartered in Shinjuku-ku, Tokyo; Ryu Koriyama, CEO & Representative Director; hereinafter "Aplix," TSE: 3727M) has announced that an IoT analog IC developed by Aplix to be compatible with ARM Limited (hereinafter "ARM")'s CPU for IoT is now installed in a foreign manufacturer's panel heaters for Europe. Details are as follows.

As the use of the Internet of Things (IoT) spreads, more products are expected to be linked to the Internet. In the area of home appliances, IoT solutions can now be incorporated within products that are widely available to ordinary consumers, thanks to the economies of large scale associated with the expansion of markets for communication modules, such as those equipped with Bluetooth and Wi-Fi. On the other hand, the cost and time involved in development have proven to be major challenges in making IoT compatible products. In light of the fierce price competition, affordably-priced products with outstanding designs need to be put on the market as quickly as possible.

Aplix has been working in these conditions to develop an IoT analog IC that makes highly price-competitive home appliances compatible with IoT through a one-chip solution. This solution was first announced in "Aplix Develops World's First Analog IC for Internet of Things – Enables Single-Chip IoT Solution for Home and Office Appliances –" on November 30, 2015.

To provide this solution, Aplix combined the analog IC it developed in house with an ARM licensed CPU for IoT, connecting the analog IC to the operation panel of the existing home appliance. Through this approach, Aplix's solution has made it easy to operate existing home appliances through an HTML5-based browser or application by simply connecting a communication module to the part where ARM's CPU for IoT is installed. This has made it easy for Aplix to construct smartphone applications featuring a high-level design as well as Internet cloud services linked to big data. These applications and services were successfully installed in foreign manufacturer's panel heaters for Europe in a short time, as shown in the image.

Electric signals to the display part are captured from the input and output area of the operation panel through Aplix's IC. These signals are conveyed to the smartphone or network via the communication module, and are then relayed to the operation section where the buttons and switches are located. Having this process take place inside the panel heater allows users to use

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their smartphones or networks to perform operations such as checking the On/Off status of power source, the temperature setting, the On/Off status of child lock, room temperature, and the operation status.

This solution merely replaces the input and output area of the liquid-crystal display, a home appliance can be made compatible with IoT, by adding Aplix's IC instead of changing the home appliance's firmware. As a result, other home appliances can also be made IoT compatible even if production, including that of the firmware, is outsourced to an original design manufacturer (ODM) or original equipment manufacturer (OEM).

In addition to providing systems-on-a-chip (SoC) that feature a combination of ARM's CPU for IoT and Aplix's analog ICs, Aplix seeks to enhance its profitability by licensing analog semiconductor technologies for semiconductor manufacturers who are licensed by ARM to manufacture CPUs for the IoT.



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