FOR IMMEDIATE RELEASE

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Name of the Company: MegaChips Corporation
Corporate Headquarters: 1-1-1, Miyahara, Yodogawa-ku, Osaka 532-0003, Japan
Representative: Akira Takata, President and CEO
(Code No. 6875, First Section of the Tokyo Stock Exchange)

BlueChip Wireless Sub-GHz Band Wireless Communication LSI Adopted for NTT Facilities' Wireless Lighting Control System

MegaChips Corporation announces that **BlueChip Wireless** Sub-GHz band wireless communication LSI (model no.: MAB0100, "**BlueChip Wireless**," hereafter) was selected by NTT FACILITIES, INC. (Representative: Kiyoshi Tsutsui; Head Office: Minato-ku, Tokyo; "NTT FACILITIES," hereafter) for its FIT LM™ wireless lighting control system ("FIT LC™," hereafter), and began mass production volume shipping.

1. Background and Outline

In recent years, the energy-saving and the comforts are essential for the office buildings controlling the required level of lightings to the required places.

FIT LC™ can precisely control the lighting apparatus with the light regulating function by wireless with a smartphone or tablet according to the various use scenes and realizes "low cost", "manufacturer agnostic" and "great deal of energy saving". The construction costs for the wiring control can be curbed during building renovations or layout change due to the wireless communications.

MegaChips' **BlueChip Wireless** was selected because it achieves this wireless communication function.

2. Reasons how MegaChips' BlueChip Wireless was selected

The **BlueChip Wireless** provides a longer communication range and higher diffraction properties in lower power consumption with the wireless characteristics of SubGHz band.

[Main Features of BlueChip Wireless]

- IEEE802.15.4g-compliant lower power consumption sub-GHz band wireless communication LSI
- Longer communication distance compared to the 2.4GHz band due to the sub-GHz frequency band.

Please refer to the following information for more details on **BlueChip Wireless.**

- BlueChip Wireless press release
  http://www.megachips.co.jp/english/pdf/141024-1_e.pdf

(Reference) Major Features and Characteristics of FIT LC™

- Daylight utilization control and appropriate luminance correction based on office environment using a brightness sensor
- Switching off lights when unattended and schedule control through integration with motion detectors, office entry and exit security systems and schedule systems
- DALI open lighting control protocol used widely around the world employed as the control protocol
- DALI or mainstream Japanese PWM control used as modulation control methods

(Reference) Terminology

FIT LC™	FIT LC (FIT Lighting Controller) *FIT LC is a trademark of NTT FACILITIES, INC.
DALI	Digital Addressable Lighting Interface International open lighting control communication protocol standard. Standardized as a digital modulated lighting interface through IEC62386.
PWM	Pulse Width Modulation A modulation method. Modulation is achieved by changing the duty ratio of pulse waves. Through PWM signals, tasks such as modulation control of light fittings and air volume control of air conditioning is possible.
Sub-GHz band	A new range of frequencies allocated for industrial, scientific and medical applications available for use without the need for a radio license. In Japan the 920MHz band is available for use.