Renesas Synergy™ AE-CLOUD2 Kit Speeds Global LTE IoT Connectivity Development and its S5D9 MCU module boots from the ISSI 256Mb serial NOR flash.

"The AE-CLOUD2 kit is a complete hardware and software reference design that allows embedded developers to quickly evaluate cellular connectivity options and build Low Power Wide Area (LPWA) cellular Internet of Things (IoT) applications. Each AE-CLOUD2 hardware kit includes a Synergy S5D9 microcontroller (MCU) baseboard, tri-mode cellular modem with cellular and GPS antennas, Wi-Fi, Ethernet, and various sensors such as lighting, microphone, temperature, humidity, pressure, air quality, geomagnetic, accelerometer, and gyroscope. The kit's rich functionality accelerates prototyping cellular-enabled IoT devices for asset tracking, retail and agriculture monitoring, smart cities/utilities, mobile healthcare, and industrial automation."*

ISSI's 256Mb Serial NOR (IS25LP256D-JLLE) has been used on the S5D9 baseboard's BOM. The IS25LP256D is a high performance SPI (serial peripheral interface) NOR device that has leading edge features such as double data rate (DTR/DDR) modes, SFDP support, and the popular 2 cycle instruction input (QPI mode). The Device supports Read speeds of up to 166MHz in Single/Dual/Quad I/O and 80 MHz in double data rate (DTR/DDR) modes. The IS25LP256D is part of a family of devices from ISSI that can support -40 to 125C operation and are fully AEC-Q100 (Automotive) qualified.

About ISSI

ISSI is a fabless semiconductor company that designs, develops and markets high performance integrated circuits for the following key markets: (i) automotive, (ii) communications, (iii) industrial, and medical, and (iv) digital consumer. ISSI's primary products are SRAM, DRAM, Flash memory which includes NOR flash, NAND flash and managed NAND solutions (eMMC), and analog and mixed signal integrated circuits. ISSI provides high-quality semiconductor products and has been a committed long-term supplier of memory products. ISSI is headquartered in Silicon Valley with worldwide offices in Taiwan, Japan, Singapore, China, Europe, Hong Kong, India, and Korea. Visit our web site at http://www.issi.com/

*Source: https://www.renesas.com/us/en/about/press-center/news/2018/news20180926.html