Renesas Ready Ecosystem Partner Solution

SMH Bsmart

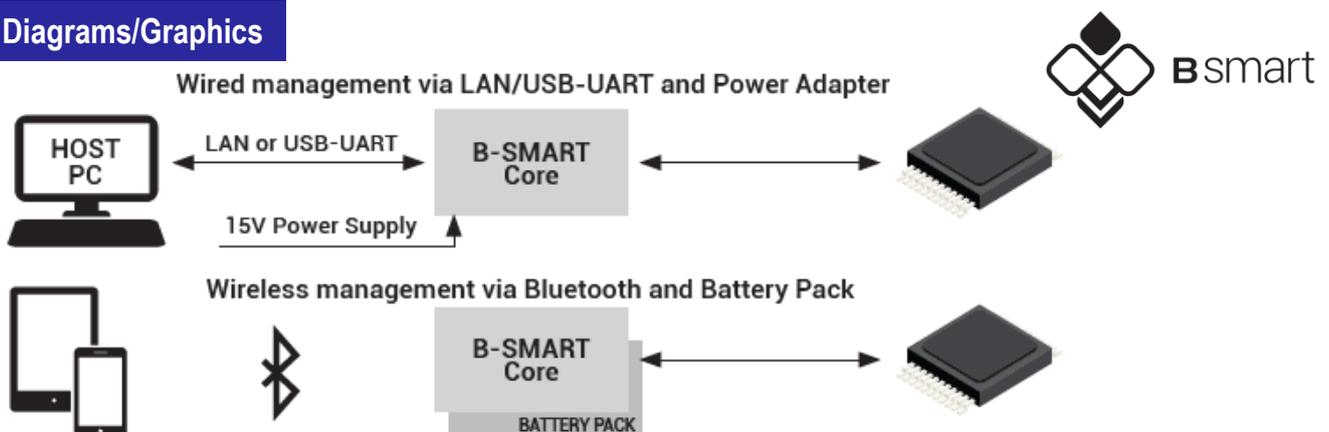**RENESAS**

PARTNER
NETWORK
READY

Solution Summary

Bsmart is a single-site In-System Programmer. It can work with USB, LAN or Bluetooth connection. Graphical User Interface for easy usage. Thanks to its compact size, it is a true-portable solution to operate on a target device during post-production or post-sales processes. Bsmart BASE and PRO support RA Family, RX Family and RL78 Family MCUs.

Features/Benefits

- Support range of Renesas MCUs (RA, RX, RL78), automotive and legacy products
- LAN, USB and Bluetooth connection and control:
    - User-friendly GUI
    - SDK/API: DLL in C/C++ and C#
    - Command line control
- Data protection with user's firmware encryption
- Device's security features supported
- Dynamic memory: change firmware content dynamically for, i.e., serial numbering
- Board Supply voltage and current up to 12V and 1A
- Pocket-sized format: 128 mm x 70 mm x 18 mm without battery pack
- Optional battery pack for a full portability

Diagrams/Graphics

Wired management via LAN/USB-UART and Power Adapter

Wireless management via Bluetooth and Battery Pack

Target Markets and Applications

- In-System Programming
- Handheld instrument for in field-programming
- Laboratory application
- Industry 4.0

PRODUCTS – SMH Bsmart

2023.05

UNIVERSAL PRODUCTION IN-SYSTEM PROGRAMMING

- USB Host Interface
- Ethernet Host Interface
- Power Switch Button
- Power Supply Connector
- ISP Connector

High Speed: up to 50 MHz of communication frequency

Universal: BDM, JTAG, SWD, UART, FINE, CSI, I2C, SPI, ICSP, eMMC …

Battery pack available for a true-portable programmer

LAN, USB control via C/C++ and C# SDK/API, Command Line Control
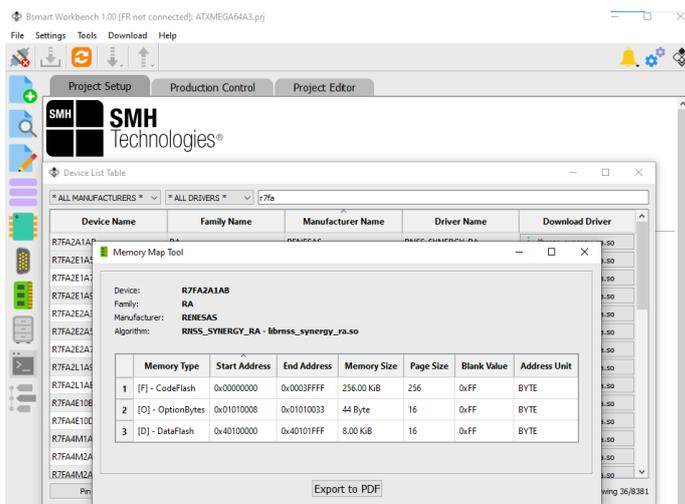
Over 8000 devices supported

Compact: 64x124x18 mm and 64x124x42 mm with battery pack

Graphical User Interface to control Bsmart programmer

CONTROL & PRODUCTION
- Programming times
- Connections
- Memory Maps

COMMAND
- Project Wizard and Execution
- File Transfer Manager
- System Update

SECURITY
- Firmware Encryption
- User Management
- Dump and Read

Shop – Bsmart (smh-bsmart.com)