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DM870A Datasheet

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JukeBlox[®] 3.0

The Most Comprehensive CE Connectivity Platform Available

JukeBlox 3.0 is a hardware and software solution that enables home CE products to connect to the internet and home network, allowing access to internet radio and music services along with home network media. This comprehensive 4th generation platform leverages seven years of software feature development and architectural evolution along with SMSC's 3rd generation integrated Wi-Fi[®] network media processors, modules and hardware designs.

The JukeBlox 3.0 software platform and SDK combines and extends many features from previous SMSC platforms, including support for AirPlay[®] music streaming and control, DLNA[®] and many valuable new JB features. JukeBlox provides the broadest and most proven feature set along with SDK development and customization capabilities all optimized with faster boot time and real-time operations. We offer an extensive application stack as well as a comprehensive SDK and tool set to bring you an advanced, powerful, robust and flexible connectivity platform.

Platform Features

- Primary JukeBlox 3.0 features
 - JB Host – for cost-down MCU integration into DM870A
 - JB DSP – for cost-down DSP integration into DM870A
 - JB Direct – no network access point needed for playback
 - JB Remote – network control interface/SDK with iOS app
 - JB Green – power save modes with "wake-up" features
 - JB Link – easy network setup over wired iPhone[®] connection
 - JB QoS – improved Wi-Fi performance and robustness
 - Fast boot, WMM support, high-resolution codecs, direct streaming, among other features
- Comprehensive connectivity solutions
 - Processors, modules, software, SDKs, designs
 - Cost-effective, feature-rich Wi-Fi/Ethernet solutions
- Featuring full support for AirPlay music streaming/control
 - Supports iTunes[®] streaming and control over home network
 - Supports streaming from iOS devices (iPhone, iPad[®], iPod touch[®])
- Unequaled music content and premium services
 - Internet radio with over 10,000 stations
 - Pandora[®], Rhapsody[®], SiriusXM[™], Napster[®], Last.fm[®], among others
- DLNA 1.5, uPnP[™], Windows[®] interoperability
 - Connect, control, stream from PCs and uPnP devices
 - Interoperable, certified, full DMP and DMR support
- Compelling color UI with icon navigation and album art
 - Rich 3.5" QVGA color display and TV out UI options
- Comprehensive solutions for all applications
 - Embedded/slave and standalone/SOC platforms
- Extensive peripheral options with full hardware and software support
 - AM/FM/RDS, DAB/DAB+/DMB, iPod[®] with authentication co-processor support
 - USB 2.0, SD card, clock and alarms
- Powered by SMSC's DM870A network media IC
 - Triple-core processor with integrated Wi-Fi
- Complete Wi-Fi, module subassembly offering
- JB Failsafe – extensive system and firmware upgrade/management
- JB Multi-Zone – whole home audio technology
 - Device discovery, grouping and control
 - Synchronized, multi-zone streaming (party mode)
- JB Connect – simplified Wi-Fi network setup technology

Solution Options

In order to significantly accelerate product development as well as deliver a plethora of integrated DMP features, SMSC has combined comprehensive solutions for two classes of products, the aDMP standalone/SOC implementation and eDMP embedded/slave implementation.

Taking advantage of full networking and DMP features as well as high-value system management and control capabilities, SMSC's software application stack permits rich customization of user interfaces, enabling rapid development of unique, branded end products by OEMs and ODMs. Reference designs are available.

Solution Description		Product Applications
aDMP	For Standalone / SOC Implementations <ul style="list-style-type: none">■ Provides comprehensive DMP, UI and product level features all based on SMSC processors■ Provides I²C and GPIO interfaces for control of a complete standalone product■ Supports extensive DMP and system level features	iPod docks, clock radios, table top radios, mini-systems, media adapters

eDMP

For Embedded / Slave Implementations

- Brings DMP capability into existing or complex products
- Provides interface/control protocols and registers for system micro-controller interface and communication
- Supports extensive peripheral (iPod, USB, SD) and system level features (firmware upgrade/management, remote device control, etc.)

A/V receivers, mini-component systems, televisions, speaker bars, CEDIA ® style systems, complex radio/audio products

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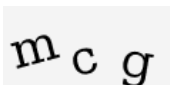
... Video Display System User Interface Display Peripherals
www.smsc.com Integrated Wi-Fi Ethernet Media Storage System
Memory (SRAM, SDRAM, NOR Flash) System Bus DM870A Networked
Media Processor Real-time Audio Engine Audio/ Video Real-time
Secure I/O Processing Processor for Processing DRM ARM926EJ
System Controller ...

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... Primary CX Series Module Features Compact 81.3mm x 40.6mm (3.2 x 1.6) Supports full features for both aDMP and eDMP use

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