



BSQUARE
FORGING SMART CONNECTIONS

DATASHEET
Bsquare MobileV™

Bsquare MobileV™

A complete reference solution enabling vertical mobile computing

Introduction

With the recent trend towards industrial tablets, OEMs are looking for a combined hardware and software solution with which to create a portfolio of devices that share common applications, user experiences, device management and security.

Bsquare MobileV offers a robust, production-ready platform running on the Intel® Atom™ Z3745 processor and Windows Embedded 8.1 that reduces time to market, development risk and cost, while allowing OEMs to focus on their value-added features and functionality.

MobileV provides a common reference platform for OEMs building multiple device form factors to include durable and rugged class handhelds and industrial tablets. The solution includes cutting-edge Intel board reference designs plus Bsquare MobileV UX software.

MobileV Solution Components

MobileV combines Microsoft Windows Embedded 8.1 with cutting-edge Intel mobile board reference designs from Aava Mobile, a global leader in tablet and handheld design, along with Bsquare proprietary UX software.

Hardware Design File Package

The Aava hardware design file package includes all the necessary design files and documentation (BOM, schematics and layout files) to manufacture a printed wire board (PWB) based on the Intel Atom™ Z3745 quad-core processor. The design leverages superior performance of the Intel ATOM processor (formerly known as Bay Trail), decades of mobile device design expertise through Aava and all the capabilities of next generation hardware, with state-of-the-art wireless communication.

Windows Embedded 8.1 Industry for Tablets

Windows Embedded 8.1 Industry for Tablets delivers the power, familiarity and reliability of the Windows OS with flexibility for the advanced industry devices and solutions they create. Windows Embedded 8.1 Industry for Tablets is customizable, offering rich user experiences, more security and utilization of enterprise grade features.

Bsquare MobileV UX Software

Bsquare MobileV UX extends the hardware reference design with an application layer that solves the dilemma of legacy app migration to new platforms and smaller mobile form factors. MobileV UX supports access to legacy apps on the latest Windows platform and hardware, enables and improved user experience on small form factors.

MobileV software enables screen resolutions compatible with displays sized from 3.5" and up, enhanced UI and functionality including support for legacy and modern applications, launch screen branding, user-based profiles, and internationalization.

HIGHLIGHTS

MobileV is a complete hardware and software reference solution based on Intel® architecture and Microsoft Windows® Embedded 8.1. It delivers the following benefits to OEMs and enterprises who build durable mobile devices and industrial tablets.

BENEFITS

- Reduce development costs and time to market by leveraging production ready Aava Mobile board design files
- Customization of board design files allows OEMs to differentiate their devices
- Reduce platform risk by using a proven shipping mobile platform with 4 year availability
- Supply chain flexibility and mobility for derivative products through IP license
- Increase OEM feature capabilities by using Windows Embedded 8.1 operating system resources
- Maintenance and support savings
- Increase OEM platform flexibility with Bsquare MobileV UX software which delivers multiple display size/resolution, branding, user profiles and support for legacy and modern applications



MobileV System Specification

HW Reference Design Files

- Production ready design
- Bill of Materials – Detail list of hardware components
- Schematics – PWB schematics
- Gerber Files – CAD readable files for layout and design

MobileV Software Features

- Application Launcher, sized tiles / text for usability
- Launch modern Apps
- Launch classic Apps
- Hi/Low RES quick setting tiles
- Live tiles support
- Full shell personality
- Configurability tools

Platform

- Windows Embedded 8.1 Industry for Tablets or Retail
- VOIP
- NFC, BT 4.0
- Data (cellular)

Customization Options

- Scan Engine integration
- Mag stripe reader
- Keypad support

Aava Inari 5-8-10” Handheld and Tablet Hardware Specifications

OS Support	Windows Embedded 8.1 Industry for Tablets
Platform	Intel Atom Z3745 (“Bay Trail”), quad-core CPU
Display & Touch	Inari 5 Display: 4.7” – 1280x720 pixels. Also available in 8.3” and 10.1” tablet form factors. Multi-touch and pen support
Memory	2GB DC LPDDR3, 64 GB eMMC (32 and 128GB optional). µSDXC Card Slot, accessible by end user.
Communication	WiFi, BT 4.0, GPS/GLONASS, NFC. 3G/LTE modem (optional feature).
Cameras	Main 8MP, Front 2MP
Sensors	E-Compass, accelerometer, gyro, ambient light, proximity.
Interfaces	3.5mm audio jack, µUSB (for charging / debugging), USB 3.0 docking connector, HDMI, charging
Mechanics	IP67 (dust and waterproof), 1.5m drop resistance, exchangeable battery
Operating and Storage Conditions	Operative: -20°C – +60°C Storage: -30°C – +70°C Operative humidity: 10% - 90%
Availability	4 Years

About Bsquare

Bsquare, a global leader in embedded solutions, applies experience and expertise on leading platforms to create new connections with customers, new business models and to enable new ways of working and communicating. Bsquare serves customers by forging connections among the partners, people, tools, and technology needed to create smart connected systems.

For more information, please visit www.bsquare.com or email us at sales@bsquare.com



/EmbeddedExperts



/Bsquarecorporation



/company/bsquare



/BsquareEmbedded

BSQUARE Corporation

Toll-free +1.888.820.4500 | Tel:+1.425.519.5900 | sales@bsquare.com

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