

Analytical Design Solutions, Inc



KioWare OS

Overview



The Need

- Increasing interest in deploying Android OS in kiosks
- Kiosk software needs low level OS access
 - Lockdown
 - User session management
 - Device integration
 - Remote monitoring/management
- Windows hardware all has identical low-level API access
- Android HW manufacturers develop their own custom APIs
- API quality varies widely as does 3rd party access
- Kiosk software for Android is complicated by the lack of standardization



Samsung Knox

- Market leader and most versatile API
- Problem: tablets not ideal for most kiosks
- Prefer separate CPU and display components
 - Lower cost
 - Design flexibility
 - Easier/cheaper operating maintenance



All-in-One Solutions

- More screen size and I/O options
- Same enclosure integration issues as tablets
- Often no general-purpose kiosk API
- Often tied to their kiosk system software
- Bottom line: limited flexibility



KioWare OS

- KioWare for Android targets Single Board Computers (SBC)
- KioWare is integrated as a firmware solution
- Includes existing KioWare for Android functionality
- All low-level API hooks that KioWare previously relied on hardware manufacturers to provide are now included in KioWare.
- No longer tied to a particular hardware manufacturer
- KioWare is **now** the Operating System

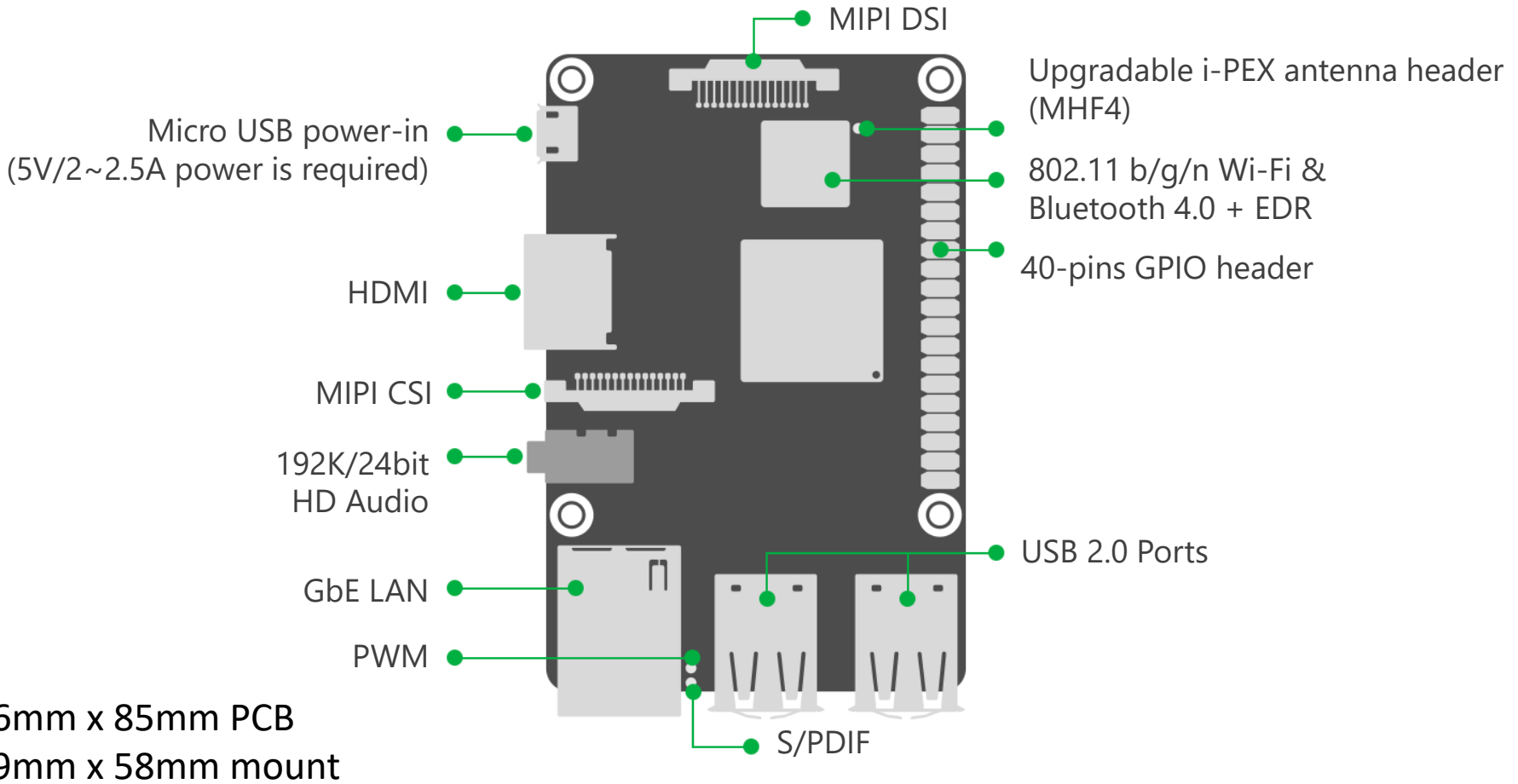


KioWare OS Features

- System signed
- Device has two modes:
 - KioWare (deployed state)
 - KioWare Configuration (authentication required)
 - No Home Screen access
- Modify/hide nav/status bar
- Full GPIO functionality
- Silent install/update apps via our KioWare Server/KioCloud kiosk management platform
- Automated OTA updates of firmware via KioWare OTA Server



ASUS Tinker Board SBC





Markets

- Informational kiosks
- Transactional kiosks
- Vending machines
- Custom machinery – ex, goose chasing robot