EBX-501

Main Features

- Fanless/rugged design
- Easily wall-mounting
- Atmel ATSAMA5D35 536MHz Cortex-A5 CPU
- Linux kernel 4.19.x with file system
- 512MB LPDDR2 SDRAM, with eMMC Flash

- 1 x Gigabit Ethernet
- 1 x Full size miniPCIe socket inside
- 2 x Antenna through SMA reserved
- +9~+48VDC power input
- Ultra-low power consumption

H/W Specifications

CPU/Memory
- CPU: Atmel ATSAMA5D35 536MHz w/MMU
- SDRAM: 512MB, LPDDR2 with eMMC Flash

Network Interface
- Type: 1 x Gigabit Ethernet
- Connector type: RJ45
- LED indicator (at connector): Link, Ready

mini-PCIe Slot
- 1 x mini-PCIe socket (full-size)
- Reserved for LTE-U mini-PCIe module

SIM Card Socket
- 1 x micro-SIM card socket , USB interface reserved

Antenna
- 2 x Antenna (SMA) hole

SD Slot
- 1 x micro-SD socket
- SD 2.0 compliant, supports SDHC

General
- Watchdog: yes
- Real-time clock (RTC): yes, backup by super capacitor
- Buzzer: yes
- Power input voltage: +9~+48VDC power input (terminal block or DC Jack)
- Dimensions (WxLxH): 82.6 x 108.4 x 32.6mm
- •Installation: wall mounting or DIN-Rail mounting

S/W Specifications

Operation System
- Linux kernel 4.19.x
- Supports bootup from eMMC or SD card
- Boot Loader : barebox
- File System : EXT4/ETX3/ETX2, VFAT/FAT, NFS

Software Development
- Toolchain: gcc 6.2.x + glibc 2.24
- Supports in-place C/C++ code compilation

Package Management
- Package repository: self-maintained repository
- Command: using standard apt-get command

Popular Packages
- Web server: Apache/Nginx/Lighttpd
- Database: MySQL/SQLite3/PostgreSQL
- Script language: PHP/Python/Perl/NodeJS
- Text editor: vim/nano/sed
- Administration: Webmin

Ordering Information

- **EBX-501 (P/N: TDB)**