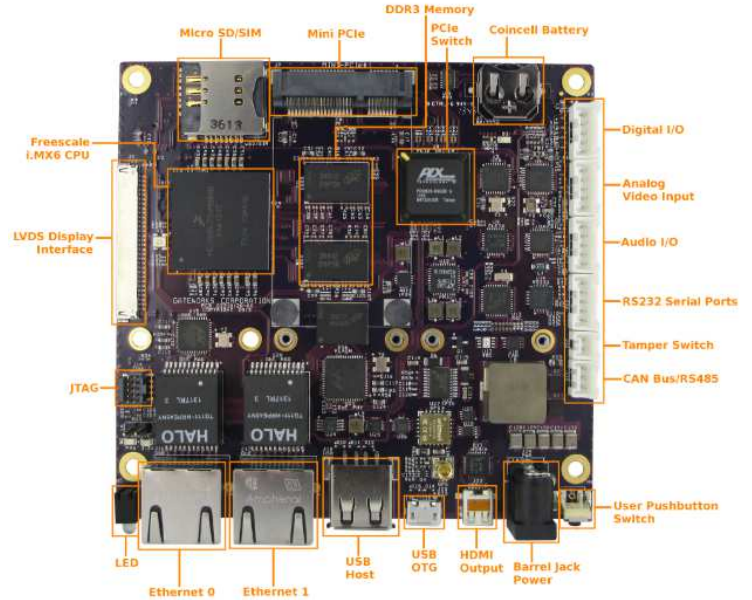


DATASHEET
IT-5304 AP



INTRODUCTION

Multifunctional hardware at the right Price!

The IT 5304 AP Maximizes the diversity and use of applications, bringing together the benefits of the multiple forms of captive portal, AAA server, advertising and other services synchronized and unified with a powerful i.MX6 Quad Core CPU @ 1GHz Processor platform, 2GB DDR3 SDRAM memory, 2GB Micro SD™ Flash Expansion Socket, GPS, Wireless 802.11AC 3x3x3 MIMO and Two GbE Ethernet Ports.



TECHNICAL SPECIFICATIONS

- ◆ ITRADIUS v. 1.0 Tempesta.
- ◆ AAA Server (FreeRADIUS V.3.0.10)
- ◆ Supports NAS (Network Access Server) Virtual and Physical.
- ◆ Ability to deploy a captive portal / Hotspot with multiple sites (CoovaChilli rolling release V 1.3.1).
- ◆ Support for local storage on SQL Database.
- ◆ Asynchronous WEB administration.
- ◆ Support for deploying virtual network interfaces,
- ◆ Connectivity over VPN and SSH Tunnels.
- ◆ Certification authority and issue of certificates on demand.
- ◆ VLAN and IP v4 Support.

FUNCTIONAL CHARACTERISTICS

- ◆ Support from various identity providers:
 - Local DB
 - ODBC
 - OPENID
 - LDAP
 - ADC (Microsoft Windows Server version 2003 a 2016)
- ◆ Dictionary system for NAS auto configuration (Network Access Server): HP, CISCO, ARUBA NETWORKS, amongst others.
- ◆ Real time system statistics and status.
- ◆ Automatic subscription updates.
- ◆ Custom system of groups and attributes that Define user properties.

- ◆ Ability to synchronize multiple instances with a master AAA server.
- ◆ Communication methods with the NAS (Network Access Server):
 - External Encryption or authentication Layer:
 - TLS
 - LEAP
 - FAST
 - TTLS
 - EAP (PEAP)
 - Internal Encryption:
 - MSCHAP V.2.0
 - MD5
 - GTC
- ◆ Variations of Captive Portals / Hotspot:
 - Standard Captive Portal: User name and Password (Local DB, ODBC, LDAP y ADC).
 - Direct Step Captive Portal.
 - Captive portal with Access Code (PIN).
 - Captive portal for Phantom users with delegated authority.
 - Captive portal with data Capture (forms).
 - Captive portal with External Sync, (Open ID: Google, Facebook, Twitter).
 - Captive portal with MAC Recognition. (RADA - RADIUS Authenticated Device Access).
 - Captive portal with app verification. (Requires a confirmation of installation of the specific application).
- ◆ Exclusion system of domain names and IP addresses through Garden in ny captive portal methods / Hotspot.

- ◆ Custom theme uploading (CSS) in any Captive portal / Hotspot method.

VALUE ADDED CHARACTERISTICS

- ◆ Integration with External applications through public API, protocol HTTPS in JSON format.
- ◆ Ability to Support embedded and synchronized applications through Python Wheels.
- ◆ On demand advertising injection through **ADFLY**
- ◆ Custom advertising splash system.
- ◆ Custom Widget system for captive portal views.

MITIGATED VULNERABILITIES

- ◆ Out of the way Attacks “Off-path”
<https://arstechnica.com/security/2016/08/linux-bug-leaves-usa-today-other-top-sites-vulnerable-to-serious-hijacking-attacks/>
- ◆ Provides users without privileges unrestricted Access to the root.
<https://arstechnica.com/security/2016/10/most-serious-linux-privilege-escalation-bug-ever-is-under-active-exploit/>
- ◆ An unprivileged user can copy, modify or destroy a hard drive.
<https://threatpost.com/cryptsetup-vulnerability-grants-root-shell-access-on-some-linux-systems/121963/>

- ◆ Unauthorized messages can be sent.
<http://thehackernews.com/2017/02/python-java-ftp-protocol-injection.html?m=1>
- ◆ Avoid Firewall defenses.
<http://thehackernews.com/2017/02/python-java-ftp-protocol-injection.html?m=1>

HARDWARE ESPECIFICATIONS

Features
i.MX6 Quad Core CPU @ 1GHz Processor
2 Gbyte DDR3-800 SDRAM Memory and 256Mbytes Flash System Memory
2GB Flash Micro SD™ Flash Expansion Socket Compatible with SD Specification 3.0
GPS
Wireless 802.11AC 3x3x3 MIMO
Four High-Power Gen 2 Mini-PCIe Sockets
Support for SIM Socket, optional mSATA Disk Drive, and USB Signaling
Two GbE Ethernet Ports
USB 2.0 Host and OTG Ports up to 480Mbps
Three Video Inputs Support CVBS, Y/C, YPrPb
HDMI 1.4 Output Port with Audio Support
LVDS Output Port Compatible with TIA/EIA 644-A
Analog Stereo Line In/Out or Headphone/Mic Audio
Can Bus 2.0B 1Mbps Serial Port
Two RS232 Serial Ports
General Purpose Digital I/O
Real Time Clock with Battery Backup
Voltage and Temperature Monitor
Serial Configuration EEPROM
Programmable Watchdog Timer
Digital 6-axis Accelerometer/Magnetometer

Optional GPS Receiver and RS485 Serial Port
Optional PCIe Expansion for Additional Mini-PCIe, Legacy Mini-PCI, or GbE
8 to 60VDC Input Voltage Range
Power Through Barrel Jack or Ethernet with Passive or 802.3af Compatible PoE
4W@25C Typical Operating Power
30W Shared Between Mini-PCIe Sockets
Reverse Voltage and Transient Protection
-40 · C to +85 · C Operating Temperature
OpenWrt, OpenEmbedded/Yocto, and Android Board Support Packages
1 Year Warranty

USE ORDERING INFORMATION

Ordering Information	
IT-5304 AP	IT 5304 AP. Captive portal, AAA server, advertising and other services. i.MX6 Quad Core CPU @ 1GHz Processor platform, 2GB DDR3 SDRAM memory, 8GB Micro SD™ Flash Expansion Socket, GPS, Wireless 802.11AC 3x3x3 MIMO and Two GbE Ethernet Ports.

IDEAL PRODUCT USE:

- | | |
|---|---|
| ◆ Hospitals | ◆ Internet Kiosks |
| ◆ Libraries | ◆ Dorm Rooms |
| ◆ Restaurants | ◆ Churches |
| ◆ Coffee shops | ◆ Offices |
| ◆ Condominiums | ◆ Events |
| ◆ Tourist Attractions | ◆ Convention Centers |
| ◆ Airports | ◆ Hotels |
| ◆ Stadiums | ◆ Public Parks |
| ◆ Universities | ◆ Concerts |
| ◆ College Campuses | ◆ Movie Theatres |
| ◆ Shopping Centers | ◆ Night Clubs |
| ◆ Bus Terminals | ◆ Gyms |
| ◆ Internet Service Providers (ISP's) | ◆ Any other locations where Captive Portals may be utilized. |