



# We provide customized graphical & touch controlled HMI planning, developing and manufacturing service

*Humanized Technology by Portalinks*

Human Machine Interface (HMI), also referred to as User Interface, Operator Panel or Terminal, provides a means of controlling, monitoring, managing and/or visualizing device processes. They are used in machine and process control to connect the sensors, actuators and machines on the factory floor to I/O control and PLC application systems.

Portalinks Technology Corp. is a premier provider of **Dynamic Graphics, Data Visualization, Human-Machine Interface (HMI), Embedded OS and hardware** for various kinds of applications and customers. Portalinks HMI board series are composed of from 100MHz Cortex M4 based boards to GHz Cortex A8/A9(multi-cores) based board to cover a wide range of automation applications. Portalinks provides the customized graphical, multi-touch controlled HMI planning, developing and manufacturing service for applications like **Medical instrument, Fitness & Sport instrument, Energy and Power monitoring device** and **Machines control panel** etc..

Incorporated with TI's Sitara AM3354, Portalinks proposes its new HMI platform. Benefiting from Sitara processor's high performance, reliability and sophisticated industrial interfaces, Portalinks pLink-3354 platform provides rich industrial interfaces of GigaLAN, QEP, CAN, RS232/422/485, large LCD support( TTL or LVDS) and USB etc. to fully meet most requirements. pLink-3354 enables customers to implement its desired HMI system time to market based on the well-designed pLink-3354 platform.

Portalinks provides one stop development of system/product design, custom board manufacturing and APP programs development to save your money and time.



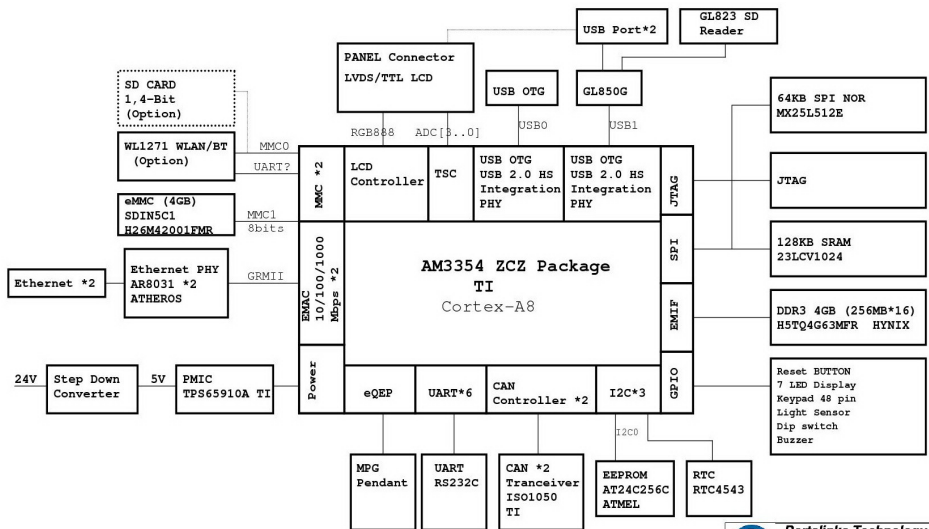
# pLink-3354 platform

## Overview

pLink-3354 platform is a Linux-ready networking platform running on the high performance ARM CORTEX A8 processor. It is designed to build sophisticated network connectivity, graphic and multiple industrial communication and control ports to your application quickly and simply. It eliminates the development effort and helps to offer network connectivity within weeks.

## Features and Specifications

### Block diagrams



pLink-3354 platform optimized for

- Medium to Large industrial TFT LCD display
- Touch technology enabled
- Compact, Robust & Fast boot Linux environment
- Wide temperature working range with industrial grade components
- POWERVR SGX Graphics Accelerator subsystem for 3D graphics acceleration
- Kinds of interfaces to connect and incorporated with existed Modules, Machines and Instruments.

## General Information

- \* CPU: TI Sitara AM3354 800MHz (up to 1GHz)
- \* RAM: 256MBytes DDR3 DRAM(x16, up to 512MBytes)
- \* Flash: 4GBytes eMMC
- \* OS: Linux 3.2 with 6 sec from cold boot  
(Android 4.1 is ready by request)

- \* On-board Data Flash :EEPROM, NOR, NVSRAM for system backup
- \* Accurate standalone RTC with CR2032 backup battery
- \* Buzzer
- \* LED indicators
- \* PWM
- \* Watchdog Timer
- \* Capacitive or Resistive Touch controller ready (USB or I2C)
- \* TTL and LVDS for TFT LCD (up to 2048x2048)
- \* WL1271 Wifi & BT combo module (opt.)

## Interfaces

- 10/100/1000Mbps Ethernet x 2 support different MAC address
- Isolated CAN x 2
- RS-232 x 2 (TxD/RxD)
- Quadrature Encoder Pluse (QEP)
- Micro SD socket
- USB Host x 4 support UVC/UAC/HID/MSC
- JTAG

## Environmental

- \* Standard Temp.: 0 to 70°C (32 to 158°F)
- \* Extended Temp.: -40 to +85°C
- \* Operating Humidity: 10 to 90% RH

## Power

- Input Voltage: 12~24VDC

## Applications

- \* Home Automation
- \* Industrial Automation
- \* Programmable Logic Controller
- \* Intercom Door Bell
- \* Vehicle electronic applications
- \* Networked Data Aggregator
- \* Enterprise and Education Tablet PC, PDA.