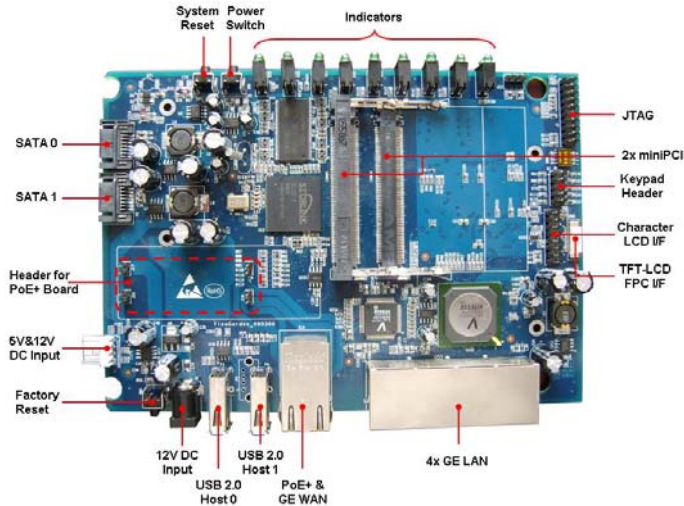


Flexcomm TinaGarden-EB Product Brief



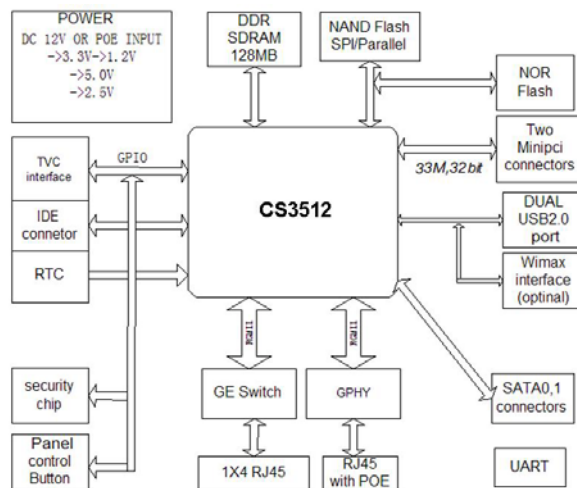
Product Overview

Flexcomm TinaGarden-EB is a hardware platform designed for Wireless Gigabits VPN Router with BT download function aiming at SOHO/SME market. It is based on latest Cortina Systems® CS3512 Gigabit Ethernet Network Processor with 400MIPS ARM9 core. TinaGarden-EB supports 1 GE WAN and 4 GE LAN. Up to 2 miniPCI slots allow WLAN or Mobile Mesh network access including 802.11n with enhanced transmitting rate via 802.11a/b/g/n Wi-Fi cards; especially, with PoE/PoE Plus module on the platform, the power adapter can be removed, this fulfills the demand for increasing outdoor deployment scenarios. These two up to date technologies make it become a much more attractive and integrated gateway platform.

TinaGarden-EB provides 2 SATA interfaces and 2 USB 2.0 HOST ports, which enable connection to up to 4 storage devices including the internal HDD and external USB HDD or USB Flash. Therefore TinaGarden-EB is very suitable for high capacity file/media server offering data backup for the enterprise or HD movies entertainment for home.

As a reference platform, abundant interface will help the customer to extend their own functions without any engineering cost. For instance, it may drive a TFT-LCD to offer video conference or connect a 3G/WiMAX USB dongles to speed up the mobile Internet access. Besides, Flexcomm would like to support customer development to expedite customized design and to maximum customers' benefit.

Block Diagram



TinaGarden-EB Hardware Block Diagram

Product Highlight

- Hardware NAT combined with Gigabit Ethernet guarantee the TRUE Gigabits packet forwarding.
- Hardware security acceleration engine enables high performance IPsec VPN.
- 802.11n wireless LAN Support data rate up to 300Mbps.
- Two integrated Hi-Speed USB 2.0 controllers adds multimedia services, such as video conferencing, NAS and printing serving
- Display interface, support BT.656 TFT-LCD and Character LCD
- Meet with the market requirements for a flexible customer-oriented platform, customers can base their designs on portions of the reference design

Hardware Features

Features	Description
Network Processor	Cortina® SL3512,300MHz, 32-bit RISC processor
Switch Controller	VSC7395 GE SWITCH CHIP
Memory	128/256MB DDR SDRAM
NOR Flash	8/16MB NOR Flash (32MB optional)
NAND Flash	128/256/512MB NAND Flash (1GB or above optional)
WLAN	802.11 a/b/g/n via miniPCI (Optional)
WiMAX	802.16e Wave 2 WiMAX via USB upright connector
USB	Two port USB2.0, Full-speed
LAN	4x10/100/1000 Ethernet LAN ports
WAN	1x10/100/1000 Ethernet WAN port
miniPCI	2xType III A miniPCI slot
SATA	2x SATA connectors
IDE	1x IDE connector (optional)
RTC	1x RTC
VGA	1x BT.656 connector
LCD	1x character LCD connector
LED Indicators	LAN/WAN Link/Activity indicators
	Wireless Link/Activity indicators
	SATA/IDE busy/idle indicators
	Power-on indicator
Crypto	1x Crypto IC
Panel Button	Up/Down/Left/Right/Enter keys
HW Reset	1x hardware reset
Factory Reset	1x factory reset
Power Jack	DC +12V@2A
PoE	Draft 802.3at PoE plus (24W) via WAN
Console	1x RS232 Pin Header
Debug Support	1x JTAG Header
Dimension	175 mm x 123 mm