

Teak 3020

Intel® EP80579 SOC Pentium M Network Security Server
with High Performance H/W Security Engine
up to 4 ports GB LAN



Feature

- Compact size Network Security Platform
- Intel® Pentium M 600Mhz~1.2Ghz EO80579 SOC Processor
With high performance H/W Security engine
- 1 Channel DDR2 Memory , Up to 2 GB w/o ECC
- Build-in 4 ports GbE LAN
- Pre-setting By-pass Function when power on/off
- 1 Mini PCI Express expansion slots
- 1 CF storage socket
- Internal 2.5 " STAT Drive bay

Specification

Form Factor

- Compact size Chassis , Heavy-Duty Steel

Dimension

- Compact size 275(W) X 144.5(D) X 43.5(H) mm

Processor

- Support Intel® low power consumption SOC Pentium M Processor EP80579 . Speed from 600Mhz up to 1.2Ghz .
- Build-in high performance H/W Security Engine :
Ciphers : AES , 3DAES , ARC4,
Hash : MD5 , SHA-1 , SHA-224-256-384-512 , HMAC
Public Key : RSA , DSA , DH , SSL/TLS , TRNG
- Integration system core logic and south bridge

Memory

- 1 Channel SODIMM DDR2 Memory , Up to 2GB w/o ECC
400 / 533 / 667 / 800 Mhz DDR2 Memory

BIOS

- Award System BIOS
- Support Console Redirection
- Support Power on after power fail as the BIOS option
- By-pass Enable/Disable selection

Extra Linux Driver

- LAN By-pass Driver
- Watch-Dog Timer Driver
- System Status LED Control Driver
- Push Button Shutdown Driver

Disk Drive Storage

- 1 Drive bay for 2.5" SATA HDD

Expansion

- 1 Mini PCI Express slots



Ethernet

- 4 ports of PCI-E I/F Intel 82573L Giga bit LAN controller
3 port from Tolapai internal LAN engine , 1 port from
Intel 82573L PCI Express LAN Controller

Pre-setting By-pass function when Power ON/OFF

- 2 ports of Giga bit LAN support LAN By-pass function
- LAN By-pass function Enable / Disable pre-setting by BIOS
when power ON or OFF

System Management

- 1 ports of DB-9 Series Console at front panel
- 2 ports USB 2.0 in the Front

Watchdog timer

- Software programmable WDT from 1 to 255 seconds/minutes

Internal reserved I/O

- Keyboard / Mouse pin header interface

Power Supply

- 60W industry grade power adapter
- AC input : 90 ~ 264 V full range at 47 ~ 63 Hz
- DC output : 12V , power jack w/o lock

Power ON/OFF mode

- AT Power ON/OFF mode

Color

- Black 4U (optional color by special request)

Environment

- Operation temperature : 0°C ~ 40°C
- Storage temperature : -20°C ~ 80°C
- Relative humidity : 10% ~ 90% (Non-condensing)

Certification

- CE Class A
- FCC Class A

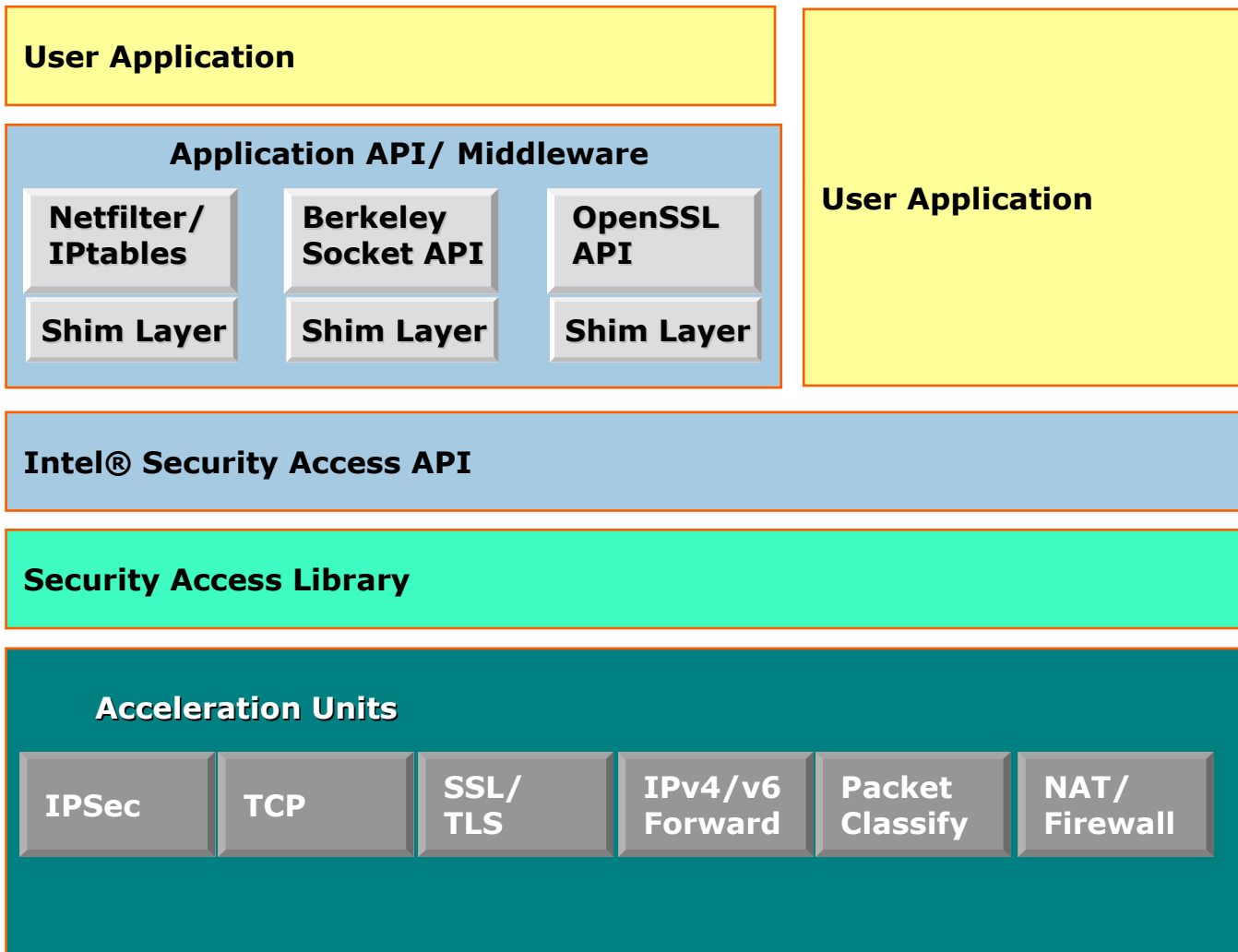
Ordering Guide

Ordering NO.	CPU speed	DDR-2 Memory	Security Engine	Ethernet Port	Wireless LAN	LCM	Color
Teak 3020-165	1.2 Ghz	512MB	Available	4 Copper GbE	N/A	N/A	Black 4U
Teak 3020-166	1.2 Ghz	1GB	Available	4 Copper GbE	N/A	N/A	Black 4U

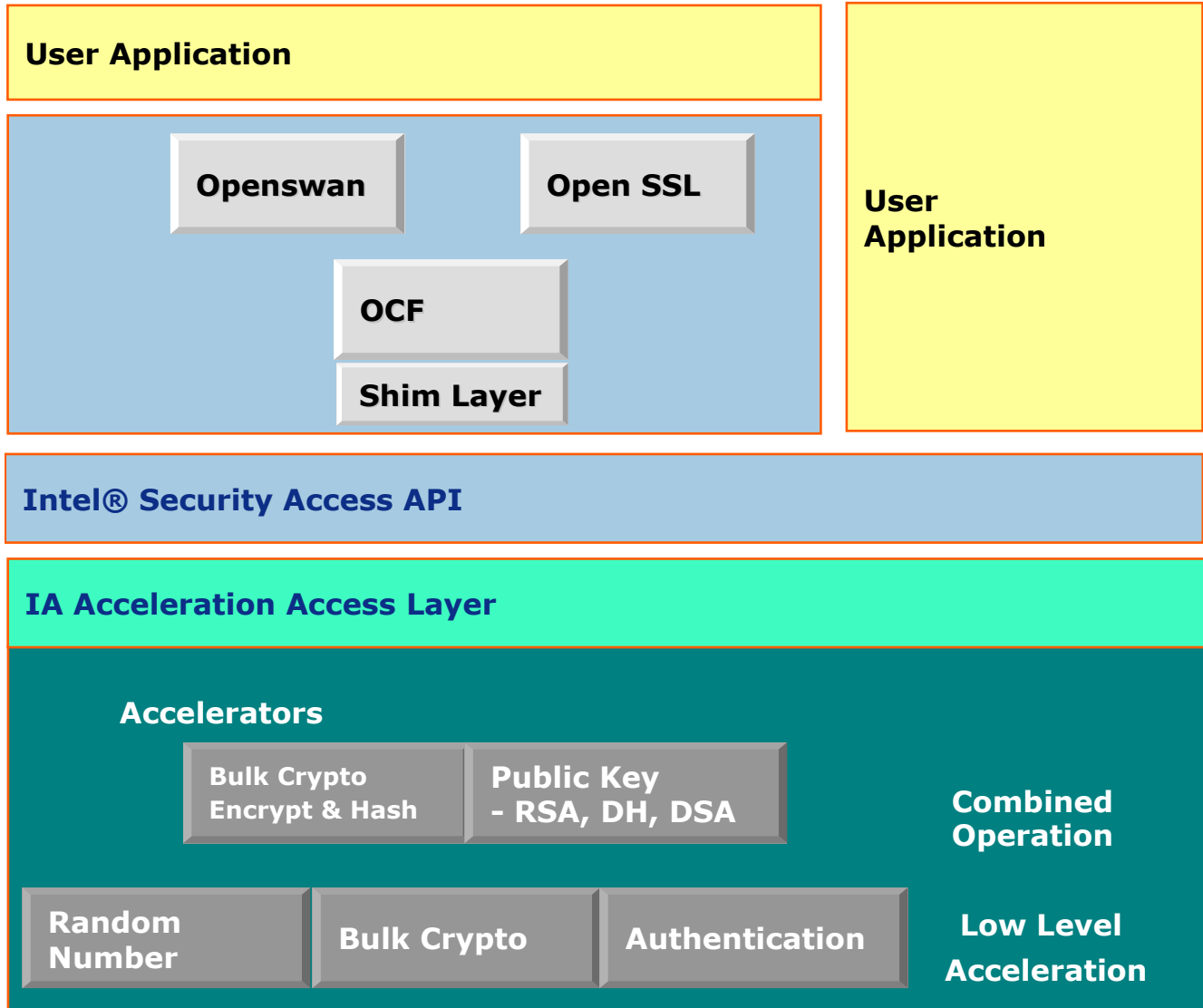
Note : Memory , CF module , HDD , 802.11 b/g/n Wireless LAN module are optional order

Specification change without notice

Security - Inline Package / Structure



Security - Lookaside Package / Structure



Security Performance Projections (Inline)[†]

IPSec VPN	1.6 Gbps aggregate @ 1 KB packet size
IKE's per second	1000 MM/Sec for IPSec
TCP Proxy	1 Gbps (@256B) , 25k connections per second
Firewall	400 Mbps, 1000 handshakes per second
SSL	2 Gbps (@256B), 25k connections per second