

## Interface Masters

TECHNOLOGIES

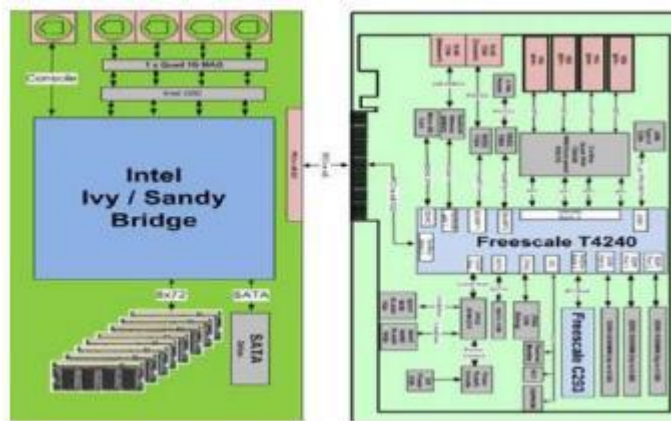
Innovative Network Solutions

### OVERVIEW

Interface Masters Technologies presents Tahoe 1417, a 1U powerful networking appliance designed for application requires power for deep data inspection. Tahoe 1417 is based on Intel X86 technology and Freescale / NXP T4240 for data plane processing, and C29X for cryptographic and public key operations. T4240 QorIQ is an integrated multicore communications processor supports 12 dual threaded cores built on power architecture with high performance data path acceleration and network interfaces.

Freescale C29x products can be used as cryptographic co- processors, off-loading public key operations from a host CPU. Public key algorithms such as RSA, Diffie Hellman, and Elliptic Curve Cryptography (ECC) are the basis of digital signature and key exchange protocols that make electronic commerce possible. The C293 is targeted to achieve ~31,000 2048b RSA operations per second.

Interface Masters Technologies provides support for the LINUX distribution. Additional software and firmware enables rapid application development. Interface Masters Technologies offers levels 1 and 2 supports as well as software application development capabilities.



Block Diagram of Tahoe 1417



Tahoe 1417 ISO View

### PRODUCT FEATURES

#### NXP / Freescale Sub-System

- Freescale / NXP T4240 12 Core at 1.8 GHZ
- Freescale / NXP C29X crypto co-processor
- Intel E5-26xx Processor

#### Non-Volatile Memory

- SATA
- Micro SD card

#### I/O Interfaces

- Four 1/10GE SFP+
- One 10/100/1000 management port
- One SD Card Slot
- One VGA port
- One RJ45 Console port
- PCI-e x 8 Gen 2

#### Functions

- Real time clock
- Temperature sensor
- Optional removable SSD

#### Power Supplies

- Redundant hot swappable power supplies

#### Fans

- Four field replaceable fans

#### Target applications include

- Network Security Appliance
- Network Function Virtualization (NFV)
- Software Defined Networking (SDN)
- SSL/IPSec Offload Processing
- 3G / 4G / LTE Gateways
- Unified Threat Management (UTM)
- Intrusion Detection Systems (IDS)
- Intrusion Prevention System (IPS)
- Data Loss Prevention (DLP)
- WAN Optimization
- Application Delivery Controllers (ADC)
- Wireless controllers

ENVIRONMENTAL	
Operating Temperature	0° to 45 °C (32° to 113°F)
Storage Humidity	5-95%, relative humidity non-condensing
Operating Humidity	5 to 85%, relative humidity, non-condensing

ORDERING INFORMATION	
Part Number	Description
Tahoe 1417	Quad port 1/10 GE SFP+ based on Freescale / NXP T4240 Freescale / NXP C293 Intel E3-2630 v2 Six-Core

DIMENSIONS (Preliminary)		
	Inches	Millimeter
Length	17.25	311.91
Height	1.74	44.20
Width	26.32	668.528

## CUSTOMIZATION SERVICES

Hardware, Firmware, Linux O/S and application code development services available.



## ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a leading provider of high-speed networking solutions focused on 1/10 /25/40/100/200 Gigabit Ethernet networking solutions. For over 25 years, Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality. Company headquarters are located in San Jose, CA with satellite offices in Hong Kong and Europe.