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• CPU Technology
• Motherboard Technology
• Intel vPro
• Motherboard Roadmap
• Chassis Designs and Form Factors
• Sustainability and Eco Projects
• Monitor Roadmap
• Software Update
• Toshiba Mobile Roadmap
• AV and Presentation Range
Technology - Development

• Intel 4\textsuperscript{th} Gen Processors (codename “Haswell”)
  • CPUs launched
  • Stable motherboards during Q3/Q4’13
• 1600MHz DDR3 Memory
• Software
  • Windows 8.1 - launched
  • Windows XP EOL: April 2014
  • Windows 7 EOL: 2017
• Graphics Expansion
  • Integrated Intel graphics ‘satisfactory’
• Solid State Drive
  • Demand continues to exceed supply; limited price drops anticipated
• Monitors
  • 19” widescreen (1,440 x 900) replaced by
    19.5” widescreen (1,600 x 900)
Intel Shark Bay platform preview

Haswell Processor
+
Lynx Point Chipset
Intel's USER EXPERIENCE Initiative

Past
- User Experience
- Systems & Software
- Amazing Silicon

Today
- User Experience
- Systems & Software
- Amazing Silicon
However The Preferred Device is the PC

Sources: TNS Mobile Life Survey 2012; Sample is 44k mobile phone users around the world
June 2013, Intel Announce the 4th Gen Intel® Core™ Processor Family

**Mobile Processors**
- Standard voltage H-Series, M-Series (57W, 47W, 37W)
- Low Power U-Series (15W, 28W)
- Low Power Y-Series (6W)

**Desktop Processors**
- Performance & mainstream quad core/dual core
- Enthusiast unlocked processors, K-Series
- Low power S-Series, T-Series

**New Intel® 8 Series Chipset**
- Mobile & desktop versions
**Responsiveness Technologies**

**Intel® Rapid Start Technology**

*5-8 second resume from hibernate*

- Enables a tablet-like Off/On experience
- Applications and desktop ready in seconds at near zero power consumption

**Intel® Smart Response Technology**

*High performance, high capacity, lower cost*

- Frequently used apps and files stored in SSD
- SSD like performance with large HDD capacity

**Intel® Smart Connect Technology**

*Faster application refresh*

- Applications are always updated with fresh content
- Less waiting for applications to start and synch with cloud
4th Gen Intel® Core™ Platform Proposition

**Performance**
- More Powerful and Responsive, your PC is ready and waiting for you not the other way around
- Up to 15% Better CPU Performance for Increased Productivity
- Wake in <3 Seconds
- Applications Load up to 2x Faster
- More Overclocking Flexibility for Enthusiasts

**Power Efficiency**
- Biggest Gen-Over-Gen Improvement in Battery Life in Intel’s History, Delivers All Day Battery Life
- >10 Days Battery Life in Connected Standby
- 20X Reduction in Idle Power Draw
- Low Power CPUs At Lower Than 10W to Enable Sleeker Form Factors

**Visuals**
- Industry Leading Media Capabilities, Cutting Edge Display Support, and a More Enjoyable Gaming Experience
- 6 Minute HD Video Ready to Share in 12 Seconds
- 3D Graphics up to 2X Better means more top games are playable
- Made for 4k and Collage Display

**Connectivity**
- You and Your Data are Constantly in Sync on the Go, at Home or at Work
- Automatically Connect to Wireless Hotspots
- Email and Apps Always Updated
- Wirelessly Stream HD/3D Video and Games to Your TV or Projector for Presentations and Entertainment with Intel® Wireless Display

**Security**
- Hardware Level Security Protects Your Devices, Your Data, and Your Online Transactions
- Detect and Defend Your System Against Malicious Malware
- Protect Against Theft or Loss of Data or Device
- Intel Security Features Lock Your Devices and Aid With Recovery
- Makes Accessing Your Online Services More Secure

For Benchmark and Performance Claims Refer to Appendix
Intel Confidential
CPU Performance, by generation

Source: [www.passmark.com](http://www.passmark.com) 25-09-13
# PC Client Platform Roadmap

<table>
<thead>
<tr>
<th>Year</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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<td>Sandy Bridge/Ivy Bridge</td>
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<td>2015</td>
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<td>2016</td>
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<td>Skylake refresh</td>
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</tbody>
</table>

- **HEDT 130W**
  - Sandy Bridge/Ivy Bridge
  - Haswell / Haswell refresh
  - Skylake

- **Trad DT 25-95W LGA**
  - Haswell / Haswell refresh
  - Skylake
  - Skylake refresh

- **M Proc. Line 47W BGA**
  - Haswell
  - Broadwell Haswell refresh
  - Skylake

- **U-Proc. Line 15-25W BGA**
  - Haswell
  - Broadwell
  - Skylake Cannon Lake

- **Y-Proc. Line <6W BGA**
  - Haswell
  - Broadwell
  - Skylake Cannon Lake

- **Essential DT/MB 4-10W**
  - Cedar Trail-M/D
  - Bay Trail-M/D
  - Bay Trail-M/D

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Intel Confidential
Intel’s Desktop Boards Ramping Down

- Intel Desktop Motherboard Business will be gradually ramping down during 2014, ending a history of more than twenty years.
- We are ramping up a new focus on integrating innovative solutions for the PC ecosystems such as the recently announced Next Unit of Computing, as well as forging deeper partnerships with OEM and ODMs for the next generation of Ultrabooks™, All-in-One PCs and future innovative products.
- Intel Desktop Motherboard Business will launch & continue to deliver its 2013 Haswell-based products, allowing its customers ample time to transition to other Intel based supplier solutions.
- Intel Desktop Motherboard Business will build, sell, support and provide warranty on ALL desktop motherboard products already in production through their normal life.
- The Desktop segment continues to be a major focus for Intel with hundreds of products across many sub-segments and applications. Intel expects the broad and capable Desktop motherboard ecosystem to fully support the Intel growing roadmap and large worldwide customer base.
Integrated Intel graphics processors DO perform!

- Standard onboard GPUs can outperform entry-level discrete graphics cards for 2D and 3D
- Up to 1.7GB video memory (1GB in Windows XP)
- Integrated Intel graphics supports vPro KVM functionality
- Intel onboard gfx = OpenGL and DX11 support

Benchmark figures: www.passmark.com, Feb 2014

Intel Graphics Cores
- 3rd Gen Core: HD2500, HD4000
- 4th Gen Core: HD4600, Iris/Iris Pro
Remote Management

Intel vPro and AMT
Microsoft SCCM
Hardware Support
Intel vPro Technology  Desktop Platform

• Business Platform with better Security, Manageability and Performance
  – Better security (TPM)
    – Onboard Encryption
    – Secure 1-to-1 communication
    – Agent presence checking
  – Intel’s Active Management Technology (iAMT)
    – Lower IT maintenance costs
    – Simple / powerful Asset Management
    – Remote manageability
  – Best ever performance
    – Core Based Architecture
  – Energy efficiency
    – Power-efficient processors
    – Remote start-up/shut-down
Intel vPro Feature Set

Security
- Agent presence checking
- Programmable network filtering
- Non-volatile memory
- Intel Anti-Theft technology**
- Remote Provisioning
- Host-based configuration*

Manageability
- Encrypted remote power up/down
- Remote/redirected boot
- IDE redirection
- Out of band management
- HW remote KVM
- Asset tracking
- ME Firmware downgrade*

Performance
- Intel Core i5/ Core i7 processor
- Intel Express Chipset
- Intel PRO network adapter
- Intel PRO WiFi adapter (mobile only)
- Intel WiDi (2013)
Viglen SCCM Integration

Driver installation and Summary Guide for every system to include:

- Driver installation order
- Essential operating and optional drivers
- Device ID Codes to help identify missing drivers in Device Manager
- Extended driver sets:
  - .inf only driver sets
  - Full driver sets
  - WinPE LAN Drivers
- www, ftp and CD distribution

<table>
<thead>
<tr>
<th>Intel® vPro™ Technology Feature support</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Hardware and Software Inventory</td>
</tr>
<tr>
<td>• Remote Power Control</td>
</tr>
<tr>
<td>• Remote Configuration</td>
</tr>
<tr>
<td>• Remote Diagnosis and Repair</td>
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<tr>
<td>• Endpoint Access Control</td>
</tr>
<tr>
<td>• Access Monitor Logs</td>
</tr>
<tr>
<td>• Wireless Management in Sleep Mode</td>
</tr>
<tr>
<td>• Intel® Secure Key</td>
</tr>
<tr>
<td>• Hardware-based KVM</td>
</tr>
<tr>
<td>• Alarm Clock</td>
</tr>
</tbody>
</table>
Integration Services from Viglen

Customer training
- Viglen Hardware Familiarisation course
- vPro overview and practical live demos
- Viglen Training Courses
  - Enabling vPro
  - Administer vPro
- Dedicated vPro enabling Pre-Sales Team

MDT implementation plan

Deployment schedule
- Site Surveys (Scope of Works)
- Infrastructure Analysis
- Management Software Integration
- Viglen Production Process
- Pre-provisioning of machines
Viglen Desktop Motherboard Roadmap

Genie Desktop Motherboards
Genie mini-ITX small form factor
Genie Pro Workstation Motherboards
### ATX Motherboard Summary

<table>
<thead>
<tr>
<th>Board Type</th>
<th>Name</th>
<th>Step-up Feature</th>
<th>Target Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single CPU</td>
<td>Vig644M</td>
<td>2\textsuperscript{nd}/3\textsuperscript{rd} Gen Processor support</td>
<td>Value-oriented feature rich PC</td>
</tr>
<tr>
<td></td>
<td>Vig690M</td>
<td>4\textsuperscript{th} Gen Processor support</td>
<td>Value-oriented feature rich PC</td>
</tr>
<tr>
<td></td>
<td>DQ77CP</td>
<td>Intel 3\textsuperscript{rd} Gen processor support, Q77 chipset, extended lifecycle</td>
<td>Legacy managed deployment</td>
</tr>
<tr>
<td></td>
<td>DQ77MK</td>
<td>Intel 3\textsuperscript{rd} Gen processor support, Q77, advanced connectivity</td>
<td>Legacy managed deployment</td>
</tr>
<tr>
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<td>Vig800S</td>
<td>4\textsuperscript{th} Gen processor support Q87 chipset</td>
<td>Latest gen managed deployment</td>
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<td></td>
<td>DQ87PG</td>
<td>4\textsuperscript{th} Gen processor support Q87 chipset</td>
<td>Latest gen managed deployment</td>
</tr>
<tr>
<td>Dual CPU</td>
<td>Vig440J</td>
<td>Xeon Workstation</td>
<td>Specialist workstation with vPro</td>
</tr>
<tr>
<td></td>
<td>Vig430M</td>
<td>Dual Xeon CPU registered DDR3</td>
<td>Specialist workstation with enhanced performance</td>
</tr>
</tbody>
</table>
## Intel DQ87PG (Spring Cave)

| Processor Support (LGA 1155) | • Supports the Intel® Core™ i7, i5 and i3 processors in the LGA1150 package  
• Supports Intel® Turbo Boost Technology  
• Supports Intel® Hyper-Threading Technology |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Chipset                       | • Intel® Q87 Express Chipset Intel®  
• Rapid Storage Technology RAID 0,1,5,10 with Intel® Rapid Recover Technology & Matrix RAID |
| Memory                        | • Dual channel DDR3 1600/1333 MHz 4 DIMMs  
• 32 GB maximum  
• 1.2-1.8v memory voltage control, supports XMP |
| Graphics                      | • One PCI Express*3.0 x16 Graphics Slot  
• DVI-D and VGA graphics output |
| Expandability                 | • 4 SATA (SATA 6.0 Gb/s  
• 6 USB 3.0 ports (4 back panel ports; 2 ports via internal headers)  
• 8 USB 2.0 ports (4 back panel ports; 4 ports via internal headers)  
• 1 PCI Express*2.0 x1 slot  
• 2 PCI slots  
• Serial header |
| Audio                         | • 6+2 channel Intel® High Definition Audio Codec with multi-streaming support  
• 3 stack analog audio ports, S/PDIF out header on board  
• Front panel mic/headphone header and internal speaker header |
| Connectivity                  | • Intel® Pro 10/100/1000 Network Adapter |
| Additional Features           | • Windows 8, and 7 WHQL certified  
• Intel® vPro™ Technology support: Intel® AMT 9.0  
• Discrete Trusted Platform Module |
| Form Factor                   | • Micro-ATX (9.6" x 9.6") |
## Micro ATX Motherboards Timeline

<table>
<thead>
<tr>
<th></th>
<th>Q1 2014</th>
<th>Q2 2014</th>
<th>Q3 2014</th>
<th>Q4 2014</th>
<th>Q1 2015</th>
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<td>Mar</td>
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<td>Manageable</td>
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<td>Corporate</td>
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<tr>
<td>Stable</td>
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<td>Intel DQ77CP</td>
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<td>Intel DQ77MK</td>
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<td>– ‘Craterville Park’ Q77, 3rd Gen, vPro 7.0, USB3.0</td>
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<td>Intel DQ77MK</td>
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<td>Intel DQ87PG</td>
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<tr>
<td>– ‘Moccasin Peak’ Q77, 3rd CPU, vPro 7.0, USB3</td>
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<td>Intel DQ87PG</td>
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<td>Intel DQ87PG</td>
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<td>Intel DQ87PG</td>
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<td>– ‘Spring Cave’, Q87, 4th Gen Core CPU, vPro+ AMT9.0</td>
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<td>Intel DQ87PG</td>
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<td>Viglen Vig800S</td>
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<td>Viglen Vig800S</td>
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<td>– Viglen stable image, Q87, 4th Gen, vPro+ AMT9.0</td>
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<td>Value</td>
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<td>Vig642M</td>
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<td>– value, Core i3/i5/i7, DDR3, VGA+DVI, 3rd Gen Core CPU</td>
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<td>– value, H81 chipset, 4th Gen Core CPU, Viglen management</td>
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<td>– Xeon with C602 chipset, vPro</td>
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<td>Vig430P</td>
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<td>Vig450x</td>
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<td>– Dual Xeon E5-26xx series</td>
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Viglen Range Summary

Right PC, right design
<table>
<thead>
<tr>
<th>Range</th>
<th>Description</th>
<th>Key Points</th>
<th>Special features</th>
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</thead>
<tbody>
<tr>
<td>Genie</td>
<td>Versatile PC</td>
<td>• Range of Cases</td>
<td>• Easy customisation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Expandable</td>
<td>• Total budget control</td>
</tr>
<tr>
<td>Genie Pro</td>
<td>Workstation PC</td>
<td>• High performance PC for engineering,</td>
<td>• Latest high performance CPUs</td>
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<tr>
<td></td>
<td></td>
<td>CAD/CAM/DCC etc.</td>
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<tr>
<td>Genie Ultra</td>
<td>Small form factor PC</td>
<td>• Ergo-friendly installation</td>
<td>• Range of small form factors</td>
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<td></td>
<td></td>
<td>• Easy access for users</td>
<td>• Integrated PSU</td>
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<td></td>
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<td></td>
<td>• Secure cable covers</td>
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<tr>
<td>Omnino and Integra</td>
<td>All-in-One PC</td>
<td>• Easy deployment</td>
<td>• True All-in-One</td>
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<tr>
<td></td>
<td></td>
<td>• Single unit footprint</td>
<td>• Monitor choice</td>
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<tr>
<td></td>
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<td>• High-visibility design</td>
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Company Confidential

Genie Case Designs

- **Standard design for the Genie range**
  - Updated Medium Tower
  - Slim Desktop
  - Full Tower
  - Flexible Desktop

- **Standard Layout**
  - Reinforced power button
  - Emergency reset button
  - Easy-access USB, audio and FireWire ports

- **Micro ATX motherboard support**
  - Intel and generic motherboard options

- **Industry Standard components**

- **Security locking point**
  - ‘Kensington’ lock
  - Screwlocking cables

- **‘Tool-free’ options**
Genie Range – key features

- You choose the spec
- Range of chassis, motherboard and upgrade choices
- Industry-standard components
- Value, feature-rich and performance configurations
- Chasses designed for open access areas
  - Reinforced panels
  - Lockable
  - Easy-access ports
- Managed Lifecycle and ECN notification
Genie Ultra Range

- Extensive configuration
- Ultra Pro and Ultra Micro chasses
  - Motherboard Flexibility
- Secure Cable Cover
- Integrated monitor stand
  - Height, tilt, rotate adjustable
- PCI expansion
- Superior performance
  - vPro
  - Intel Core i3/i5/i7
- Front-facing ports
  - USB, audio and Firewire
  - Monitor stand/cover ports
- Integral security
  - Kensington Lock
  - Security screws
  - High security brackets
- Internal Speaker
- Built in PSU
  - Single power cable
• All-in-one form factor
• Wide choice of monitors
• Reduced footprint
• Front facing ports
• Integrated PSU
• Single Power Cable
Viglen Integra

- All-in-one/hybrid PC
- Ultra Small form factor
- Low Power Consumption
- Simple, tool-free access
- Secure
- Integrated PSU
- Single Power Cable
- Versatile:
  - Supports 75mm/100mm VESA mount displays
  - Interchangeable mini-ITX motherboard
  - Mechanical/SSD option
  - DVD/Blu Ray option
External Features

- Choice of screen size
- Slim Card Reader (opt)
- Carrying handle
- Optical Drive (optional)
- Side Vents
- K-lock slot
- Peripheral cover
- Security pillar (optional)
- Front-facing USB / audio
- Front-facing power switch
- Height Adjustable
- 100/75mm VESA mount
- Carrying handle
- 100/75mm VESA mount
- Security pillar (optional)
- Peripheral cover
- Side Vents
- K-lock slot
- Front-facing power switch
- Height Adjustable
- 100/75mm VESA mount
- Security pillar (optional)
- Peripheral cover
- Side Vents
- K-lock slot
- Front-facing power switch
- Height Adjustable
- 100/75mm VESA mount
- Security pillar (optional)
- Peripheral cover
- Side Vents
- K-lock slot
Viglen Omnino 5

All-in-One PC
What is Thin Mini-ITX?

- Thin Mini-ITX is a standards-based approach to socket desktop computing that enables a fully-featured experience in a minimal footprint.

  **High Performance**
  - Accommodates any Intel Core microprocessor with a TDP of 65W or less

  **Slim Profile**
  - 25mm I/O shield
  - Low-profile thermal solution

  **Ecosystem-wide Interoperability**
  - Locked CPU solution
  - Standardised thermal solution

  **Made for AIO**
  - Internal video connectors (LVDS and/or eDP)
  - SoDIMM memory

![Thin Mini-ITX](image_url)
Omnino 5 - Overview

- **Integrated All-in-One**
- **Stylish black/white design**
- **21.5 or 23” Hard Screen Display**
- **Thin mini ITX motherboards**
  - vPro and Value boards
- **Intel Core processors**
- **Low power consumption**
- **Intel HD Graphics**
- **Kensington lock slot**

**Options**
- **Webcam**
- **Security bracket**
- **Height Adjust stand**

Thin mini ITX motherboard supports future chipset launches in Omnino 5 chassis
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated All-in-One</td>
<td></td>
</tr>
<tr>
<td>Built-in webcam</td>
<td></td>
</tr>
<tr>
<td>80 PLUS power supply</td>
<td></td>
</tr>
<tr>
<td>21.5” and 23” screen</td>
<td></td>
</tr>
<tr>
<td>Hard screen LED display</td>
<td></td>
</tr>
<tr>
<td>Onboard WiFi</td>
<td></td>
</tr>
<tr>
<td>Optical Drive</td>
<td></td>
</tr>
<tr>
<td>Slim footprint design</td>
<td></td>
</tr>
<tr>
<td>Tilt/swivel adjustable</td>
<td></td>
</tr>
<tr>
<td>Dual monitor port</td>
<td></td>
</tr>
<tr>
<td>Accessible USB + card reader</td>
<td></td>
</tr>
<tr>
<td>Security mounting point</td>
<td></td>
</tr>
<tr>
<td>Optional Security Pillar</td>
<td></td>
</tr>
<tr>
<td>100mm VESA mount</td>
<td></td>
</tr>
</tbody>
</table>

Note: features subject to configuration
Versatile Omnino 5

Built to Order
• Configurable
• Disk images
• 21.5 / 23.6” screen

Accessible
• Cable Trap
• Easily accessible ports
• VESA mount

Secure
• Kensington-style locking point
• ABS Chassis cover
• Security cradle
Value Added Management

Enhancing the value of your Viglen PC
Viglen Security Options

Physical:
- Cables/Tethers
- Padlocks
- Security Screws
- Pillars
- Encasement

Deterrent:
- BIOS marking
- Security Etching
- Asset Tagging
Asset Tagging

- Asset Labels from Viglen
  - Extra strong adhesive
  - Anti tamper Surface
  - Multi data registration:
    - Asset Number
    - Serial Number
    - Date Purchased
    - Order Number
    - Warranty Expiry Date
    - System Number
- Bar code and QR code option
- Attached to an agreed location

- Data can be presented in two ways:
  - Direct from Production via a spreadsheet or PDF
  - Using Viglen Share Point Solution
**Sustainable Design**

All components are part of **Viglen Enviroquiet**

<table>
<thead>
<tr>
<th>Component</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>4&lt;sup&gt;rd&lt;/sup&gt; Gen. Core</td>
</tr>
<tr>
<td>Motherboard</td>
<td>Extended lifecycle</td>
</tr>
<tr>
<td>Power Management</td>
<td>Energy Star</td>
</tr>
<tr>
<td>Power Supply</td>
<td>80 PLUS</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>Green HDD/SSD</td>
</tr>
<tr>
<td>Monitor</td>
<td>LED lit</td>
</tr>
<tr>
<td>Graphics adapter</td>
<td>Integrated</td>
</tr>
<tr>
<td>Fans</td>
<td>Fluid dynamic bearings</td>
</tr>
</tbody>
</table>

- Increased efficiency
- Reduce redundancy
- Extended lifecycle
Sustainability

- Viglen and Toshiba are ISO 14001 Certified
  - Component and Supply Chain
- All computers Energy Star 5.0 compliant
  - Defined power consumption
  - Specific suspend and shut-down schedules
- EPEAT and Energy Star 6
- 80 PLUS power supplies as standard
- EuP <1W Directive and ERP Lot 3 (Energy Related Products)
  - In draft at the moment for 2012 release
  - Mandatory requirements that will go ‘beyond’ EnergyStar
  - Working with motherboard partners
- Bulk and Reusable Packaging
- Zero Carbon Initiative
Viglen's reusable packaging

- No cardboard to throw away
- Reused 80+ times
- Design protects hardware
- Ideal for desktop delivery projects
- Bulk packaging
Software Update

Microsoft & Linux Update
Microsoft Windows Roadmap

2014

- Windows 8.1
  - Mainstream support ends 2023

2015

- Windows 7
  - Mainstream support ends 2020
- Windows Vista
  - Mainstream support ends 2017

2016

- Windows XP
  - Mainstream support ends April 2014

2017

- Windows 9?
  - Limited support & higher cost
  - End Of Life

NOW

Full details at www.microsoft.com/lifecycle
Windows 8

Features
- Touch UI + Windows desktop
- Boot to desktop
- Improved OOBE
- Cloud Integration
- Windows App Store
- Windows 7 driver model
- Faster boot times
- Longer battery life
- Better performance
- More secure
- Faster WiFi reconnection
- Multi monitor improvements
- More powerful file explorer with ribbon UI
- Improved Task manager

Unified desktop/tablet O/S
- Windows RT – ARM processors
- Windows 8, Windows 8 Pro for x86 processors
- 32-bit and 64-bit (OEM 64-bit only)
- Similar hardware spec to Windows 7
Open Source at Viglen

- Open Source – faster development cycle
- Frequent updates
- Linux:
  - Suse
  - RedHat
  - Ubuntu/Xubuntu
  - Non-commercial cores
- Desktop, mobile, server solutions
- CL2000 – familiar hardware with Linux
- Dedicated Linux Team
Roadmap Strategy

- **Satellite**
  - Entry-level, retail models for value computing
  - Predominantly Home O/S

- **Satellite Pro**
  - Value models with enhanced features (e.g. CPU, display)

- **Tecra**
  - Corporate Stable range, 12 month roadmap

- **Portégé**
  - Stable with value-add features

- **Internet Device**
  - Tablet, Android device
New Satellite Pro C50/C70

15.6” or 17.3” laptop with all-round functionality and performance at an affordable price

Specification

- Non Reflective HD display
- Latest generation of Intel Core CPUs: Celeron / Pentium / Core i3 / Core i5
- Windows 8 / Windows 7 Pro with Windows 8 Pro DVD
- 500Gb HDD
- Up to 8GB RAM
- Fast Gigabit LAN and a/g/n wifi Internet connections
- Latest Intel HD Graphics / Nvidia 1GB dedicated graphics
- 1 x USB 3.0*, 2 x USB 2.0, RGB, HDMI, 0.9mp Webcam, SD Card
- 10 digit keypad

* Celeron model has 10/100 Lan, Core i3/i5 has 2 x USB 3.0, 1 x USB 2.0
Satellite Pro NB10 / NB10T

Education Focused Notebook with Touchscreen option

Specification

- 11.6 inch Display, Touchscreen Option
- Win8.1 (32bit)
- Intel Celeron (Touch) / Pentium (Non-touch)
- 500GB HDD
- 4GB RAM
- a/b/g/n Wireless Card
- 3.5Hr Battery Life
- 1x USB 3.0, 1 x USB 2.0, RGB, HDMI, SD Card
- 299 x 212 x 22 mm, 1.3KG (1.5kg Touch)
Toshiba and Intel 4th Gen Core – All Day Performance Mobile Range

- Portégé R30 (13.3”)
- Tecra A50 (15.6”)

Features
- Slim Design
- Dual Point
- Back lit Keyboard
- Updated hinges
- 9.5mm ODD
- Replacable Battery
- Dockable with Common Dock

Intel® Core™ i3, i5 and i7 Processors
33.8cm (13.3”) Non-reflective display
Lightweight design

Intel® Core™ i3 and i5 Processors
39.6cm (15.6”) Non-reflective display
Numeric Keypad

R9-Series Common Features:
- Minimum 12 Month Common Image Build Stability
- Ultra Long Battery Life
- Dedicated Common Docking Solution

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Portege Z30

The Latest 13” Business Ultrabook

Specification

- Non Reflective 13.3 inch HD Display, TouchScreen Option
- Win7 Pro with Win8 DVD
- Intel Core i3 / i5
- 128GB SSD Drive
- 4GB RAM
- 0.9 / 2MP FHD Camera
- TPM, Intel AMT, 3G/LTE option
- Full Size ports: 3 x USB 3.0, RGB, HDMI, Gbit LAN
- SD Card slot, Smart Card slot option,
- Battery Life 12Hrs (Mobile Mark 2007)
- 1.2Kg, 316 x 227 x 17.9 mm with Docking
- Magnesium alloy Chassis, Backlight & Spill resistant keyboard, Accupoint, Finger Print Sensor, Dockable, Toshiba EasyGuard
Tecra Z40

The Latest 14” Business Ultrabook

Specification

- Non Reflective 14 inch HD Display
- Win7 Pro with Win8 DVD
- Intel Core i5 / i7
- 128GB SSD
- 4GB RAM
- 0.9 / 2MP FHD Camera
- TPM, Intel AMT, 3G/LTE option
- Full Size ports: 3 x USB 3.0, RGB, HDMI, Gbit LAN
- SD Card slot, Smart Card slot option,
- Battery Life 12Hrs (Mobile Mark 2007)
- 1.4Kg, 338 x 236 x 21 mm with Docking
- Magnesium alloy Chassis, Backlight & Spill resistant keyboard, Accupoint, Finger Print Sensor, Dockable, Toshiba EasyGuard
Tecra Z50

The Latest 15.6” Business Ultrabook

Specification

- Non Reflective 15.6 inch HD Display,
- Win7 Pro with Win8 DVD
- Intel Core i5 / i7
- 128GB SSD Drive
- 4GB RAM
- 0.9 / 2MP FHD Camera
- TPM, Intel AMT, 3G/LTE option
- Full Size ports: 3 x USB 3.0, RGB, HDMI, Gbit LAN
- SD Card slot, Smart Card slot option,
- Battery Life 10Hrs (Mobile Mark 2007)
- 1.7Kg, 379 x 252 x 20.4 mm with Docking
- Magnesium alloy Chassis, Backlight & Spill resistant keyboard, Accupoint, Finger Print Sensor, Dockable, Numeric Keypad,
- Toshiba EasyGuard
New Z Series Updates

Technology

- 4th Gen ‘Haswell’ Processors
- Touch Options
- Longer battery life
  8Hrs > 10Hrs
- New Fan mechanism and 2nd heat pipe on 13"
- TPM now on Core i3

Connectivity

- 4G
- NFC
- FHD 2.0MP Camera
- Extra USB 3.0
- Improved Keyboard
- Smart Card
- Accupoint

Chassis

- 14” & 15.6” options
- Strengthened Hinges
- Larger touchpad with clickpad function
- Docking
- Reinforced top cover (50% Stronger/reduced flex)
- Mag Alloy on 14”/15.6”
Toshiba 8” Windows 8 Tablet

A Windows Tablet Designed for Portability

**Specification**

- 8 inch 1280x800 Touchscreen Display
- Windows 8.1
- Intel Atom processor
- 32GB eMMC, 2GB RAM
- 2MP Front Camera, 5MP Rear Camera
- a/b/g/n, Bluetooth 4.0, Miracast
- Micro HDMI, Micro USB 2.0 x 1, SD Card
- 6-7h Battery
- Optional folio cover/stand and ruggedised case
- 135 x 213 x 9.98mm, 450g
Portege Z10t
An Ultrabook Designed for Professionals with Detachable Tablet

 Specification

- Non Reflective 11.6 inch HD Touchscreen Display
- Detachable Backlit Key
- Win8 / Win8 Pro, Intel Core i5
- 128GB SSD Drive, 4GB RAM
- 1MP Front Camera, 3MP Rear Camera
- TPM, Intel AMT, Toshiba TSCM
- Micro HDMI, USB 3.0 x 1, SD Card
- Keyboard: VGA, HDMI, 1 x USB 2.0, GLAN, Accupoint, Touchpad
- Wifi b/g/n or a/b/g/n
- 6 Cell Battery: 7Hrs (Mobile Mark 2012)
- 299 x 208 x 16.9 - 19.9 mm, 1.5kg or less
- Stylus Pen Option
5C’s Combo

Touch Available

Common Image x 8

WT  Z10  Z30  Z40  Z50  R30  A50  W50

Common docking*
Common power
Common image
Connectivity
Confidence

5 x C
**Toshiba Product Roadmap – Satellite Pro + Mini Notebook**

- **C70** - 17" value model, Core i3 & i5 options, 2.7Kg, 1 x USB3, Non-Reflective Display, dedicated gfx option

- **Sat Pro A50**: Core i3 & i5 options, 2.5Kg, 1 x USB3, Non-Reflective Display - TPM

- **C50**: 15 value model, Celeron, Pentium, Core i3/i5 options, 2.4Kg, 1x USB3, non-reflective display, dedicated gfx option

- **L830**: 13.3", Core i3 ULV 1.8Kg, USB3, Tiled K/b

- **Sat NB10T**: 11.6" Win8 Touch Screen, Celeron, 4Gb RAM, 500Gb HDD, Student Use

- **NB310**: 11.6" Clamshell

Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep
Toshiba Product Roadmap – Tablets

Windows 8

**Z10T**: 11.6” Tablet with Docking Keyboard, Windows 8 Pro, Core i5, 4GB, 128GB SSD, 802.11agn, TPM, AMT, 3G, Stylus Pen

**W310**: 11.6” Tablet, Windows 8 Pro, Intel Core i5, 802.11agn, TPM, AMT

**WT8**: 8” Tablet, Windows 8 + MS Office, Intel Atom, 32Gb, 7hr Battery

Android

**AT10 Write**: nVidia Quad-Core 10” 2560x1200, Android KLP; full SD & micro USB & HDMI ports, Digitizer Pen

**AT10 Pure**: nVidia Dual-Core 10”, 1280x800 Android KLP; Micro SD & micro USB ports
Options – make the most of your laptop

Docking
Docking Solutions available across Satellite Pro, Tecra and Portégé Range from Desk based docking to universal USB options

Cases
Including EasyGuard Features
A range of cases from Standard to trolley and backpack available Now featuring EasyGuard technology for ultimate laptop protection

Desk Based
Range of Accessories
We offer a range of desk based options to compliment your notebook

Warranties and Insurance
Range of Warranty extensions and Insurance packages to suit your requirements

Digital Imaging
Digital Video & Photo Frame
A range of pocket sized video recorders and photo frames

External Drives
Hard Drive and Optical Drives
Full range of storage capacity available HDD as well as external floppy and DVD-RW
HALT Testing – Reliability by Design

■ Highly Accelerated Life Test

■ **HALT** is a combination of stress tests to mimic the lifecycle of a laptop in use

- 76cm Drop Test
- 30cc Spill Test
- Temperature Test
- Vibration Test
- Stress Test

■ Why?

- Discover flaws and weak points in design
- Evaluate & improve the design margins of the product
- More stable and reliable product at market introduction
- Lower price by reducing development time & cost
- Eliminate the design problems before releasing to manufacturing
- Used as a continuous engineering and development tool
EasyGuard from Toshiba

Your IT concerns

› Reducing Risk – secure, protect, connect
› Reducing TCO – spend less
› Delivering ROI – derive more benefit
› So what are Toshiba doing about providing Robust, Protected, Secured notebooks?

The better way to enhanced data security, advanced system protection and easy connectivity.

Toshiba EasyGuard
Carefree Mobile Computing
Toshiba’s Reliability Guarantee

www.toshiba.co.uk/reliabilityrefund

▶ Applies to
  ▶ Tecra and Portégé models

▶ Key T&Cs:
  ▶ Limited availability – ask for details
  ▶ Laptop and warranty must be registered after purchase
  ▶ Not applicable to leased contracts – the end user (organisation) is not the owner
  ▶ User error is not covered!
Reliability – The Proof

Toshiba failure rates are lower than average

% MONTHLY FAILURE RATE

Dec-12 | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13

Industry average notebook warranty intervention rate = 1.25%pm (15% pa)*

*Source: Lyons Associates & Toshiba in-house data
Toshiba’s Carbon Zero Scheme

Donate £1.30 and Toshiba will offset the **lifetime** carbon footprint of your laptop computer

Sand Martin Wood, Waugh, Cumbria
30,000 trees planted to date
Viglen and Toshiba – Adding Value

› Toshiba Platinum Partner – UK top 3
› As a Value-Added Integrator, Viglen can integrate Toshiba notebooks as part of a well rounded solution.
› Pre-delivery configuration
  › Software pre-load
  › Disk Imaging
  › Hardware configuration
› Delivery to desk
› Manageability
  › Intel Mobile vPro
› Deployment scheduling
› Viglen Support (formerly Xenon) – approved Toshiba repair agent for extended and specialist warranty