







Home > Products

[Print](#) | [Email](#)

Products

Intel's leading-edge products range from processors to processor technologies that are designed to work together to deliver a great computing experience – for home, business and on the go. Learn more about your next great technology experience.

 <p>Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom. more...</p>	 <p>Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom. more...</p>
 <p>Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom. more...</p>	 <p>Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom. more...</p>
 <p>Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom. more...</p>	 <p>Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom. more...</p>

- 2 Embedded
- Networking and Communications
- Desktop
- Processors
- Chipsets
- Motherboards
- Notebook
- Server and Workstation

Additional resources

- >> [Ethernet Controllers Product Comparison Chart](#)
- >> [Innovations in Ethernet White Paper \(PDF 296KB\)](#)
- >> [Download the product comparison brochure \(PDF 156KB\)](#)

User Overview:

- 1. Dynamic content view** generated based on popularity and showing six most popular categories (about 90% of looked after items)
- 2. Clickable, Ajax populated**
On Click: Dynamically generates (expands space below it) to display related content.
- 3. Expanded (category)**
On Click: Dynamically populates secondary level selector
- 4. Additional resources**
Area for the important notifications, etc.

Embedded <input type="checkbox"/>
Processors
Chipsets 3
Boards
Flash Memory
Microcontrollers
RFID
Development kits
Networking and Communications <input type="checkbox"/>
Desktop <input type="checkbox"/>
Processors <input type="checkbox"/>
Chipsets <input type="checkbox"/>
Motherboards <input type="checkbox"/>
Notebook <input type="checkbox"/>
Server and Workstation <input type="checkbox"/>

Fold--


[Home](#) > [Products](#) > **Processors**
[Print](#) | [Email](#)

Processors

Intel's leading-edge products range from processors to processor technologies that are designed to work together to deliver a great computing experience – for home, business and on the go. Learn more about your next great technology experience.

Desktop processors

Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom.

[more...](#)

Notebook processors

Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom.

[more...](#)

Server and workstation processors

Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom.

[more...](#)

Embedded processors

Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom.

[more...](#)

Networking and communications processors

Breakaway performance meets battery life innovation for incredible performance, and ultimate freedom.

[more...](#)

Technology

[Dual-core processors](#)
[Virtualization technology](#)
[Execute disable bit](#)

Solutions

[Notebook computer for business](#)
[Mobile solutions for small businesses](#)
[How-to guides for your mobile life](#)

Resources

[Mobile performance Intel® Centrino® Duo processor technology developer center](#)
[Compare features for Intel® Centrino® Duo processor technology](#)

Desktop processors
Notebook processors
Server and workstation processors
Embedded processors
Networking and communications processors

Additional resources

[» Ethernet Controllers Product Comparison Chart](#)
[» Innovations in Ethernet White Paper \(PDF 296KB\)](#)
[» Download the product comparison brochure \(PDF 156KB\)](#)

User Overview:

1. Sub-categories organized based on popularity

2. Clickable, Ajax populated
On Click: Dynamically generates (expands space below it) to display related content.

3. Additional resources
Area for the important notifications, etc.

4. Area for additional links
Optional, based on the category



Home > Products > Communications > Ethernet

Print | Email

Ethernet Products and Technologies

Intel® Ethernet products and technologies help increase performance and lower costs by featuring the reduced power consumption and extended interoperability that accelerate time-to-market with innovative, differentiated solutions.

Ethernet Components

1 Ethernet Controllers

2 Gigabit Ethernet Controllers

Keyword Search Search

Embedded

3 Gigabit Ethernet Controllers

Product	Function	Bus	Speed	Interface		TAmbient	Voltage	Power	Package	Resources
				Bus						
82575EB	Dual-port MAC/PHY/SerDes/SGMII	PCI Express*	---	x4/x2/x1	0-70°C	1.0, 1.8, 3.3V	~2.4W	576-pin FCBGA	> Tech Docs > Tools & Software > Product Brief	
4 82573L/82573V/82573E	Single-port PHY	PCIe*	---	x1, PCIe	0-70°C	1.2V, 2.5V, 3.3V	1.5W ²	196 TFBGA	5 > Tech Docs > Tools & Software > Product Brief	

6 Intel® 8257E/V/L Gigabit Ethernet Controllers

Overview **Technical Documents** **7 Tools & Software** Where to Buy

Highlights

- * High-performance Gigabit Network Connectivity with Intel® Active Management Technology
- * High-performing, PCI Express*-based 10/100/1000 Ethernet connection
- * Supports Intel® Active Management TechnologyΔ (Intel® AMT) to help IT discover, heal, and protect their computing assets (Intel® 82573E Gigabit Ethernet Controller)
- * Simple installation and maintenance with Intel® SingleDriver™ technology
- * Single-component design for compact LAN on motherboard (LOM) implementation with reduced bill of materials (BOM)
- * Available with Intel® lead-free¹ technology The Intel® 82573E/V/L Gigabit Ethernet Controllers are compact single-port integrated 10/100/1000 Mbps copper network-connection components for desktop, workstation, and value-server designs with critical space constraints. The 82573E supports Intel AMT, which allows IT to remotely discover, heal, and protect their computing assets. The 82573V supports ASF 2.0 and Advanced Pass. Through modes for legacy manageability applications. The 82573L offers lower power consumption for non-managed platforms.
- * Small-footprint Gigabit Ethernet implementation with integrated PCI Express

1 Lead has not been intentionally added, but lead may still exist as an impurity below 1000 ppm.

2 Lead and other materials banned in the RoHS Directive are either (1) below all applicable substance thresholds as proposed by the EU or (2) an approved/pending exemption applies.

Δ Intel® Active Management Technology requires a system with an Intel® 945G Express Chipset, Intel® PRO/1000 PM network connection, and appropriate third-party software.

82575EB	Dual-port MAC/PHY/SerDes/SGMII	PCI Express*	---	x4/x2/x1	0-70°C	1.0, 1.8, 3.3V	~2.4W	576-pin FCBGA	> Docs > Software
82573L/82573V/82573E	Single-port PHY	PCIe*	---	x1, PCIe	0-70°C	1.2V, 2.5V, 3.3V	1.5W ²	196 TFBGA	> Docs > Software

Additional resources

- > [Ethernet Controllers Product Comparison Chart](#)
- > [Innovations in Ethernet White Paper \(PDF 296KB\)](#)
- > [Download the product comparison brochure \(PDF 156KB\)](#)

User Overview:

1. Top level selector (category)

On Click: Dynamically populates secondary level selector

2. Secondary level selector (sub-category)

On Click: Dynamically generates content (below) for the item selected

3. Dynamic content view generated when sub-category selector is selected. A momentary alert – “Accessing...” is displayed to ensure user is aware of display (view) change.

4. Clickable, Item/Family name

On Click: Dynamically generates (expands space below it) to display related content. Defaults to display “Overview”. A momentary alert – “Accessing...” is displayed to ensure user is aware of display (view) change.

5. Clickable short-cut, bullet list of related resources

On Click: Has similar effect as (4). Only difference is that it does not default to display “Overview”. It opens the appropriate ‘Tab’ and related content. *It has the same affect if user clicks “Item” (4) and then clicks a tab (7) ie. It works as a short-cut.*

6. Dynamic content view generated when user clicks “Item” (4) or short-cut (5). A momentary alert – “Accessing...” is displayed to ensure user is aware of display (view) change.

7. Clickable Tabs

On Click: Dynamically generates content related to the tab. A momentary alert – “Accessing...” is displayed to ensure user is aware of display (view) change.

Expand / Collapse

NOTES:

A) Sorting by column headers

Although desirable, sorting is problematic for the following reasons:

1) When sorting across multiple (all) categories, sub-category headings are no longer viable. In other words, products belonging to different sub-categories would be interleaved when viewing “ALL” products.

2) Some products are actually more than one product (family of products). Hence they have a range of parameters instead of a single parameter. Range of parameters cannot be sorted against single parameters of other products in that column.

3) In some cases, there are different column headings amongst product sub-categories. While it is still possible to sort within an individual sub-category, sort would not be an option if the user desires to view all products in a category. See link below for example:

http://www.intel.com/design/bridge/index.htm?iid=ncdcnav2+stor_bridge



Home > Products > Chipsets > Embedded > Embedded Chipsets **A** [Print](#) | [Email](#)

Embedded Chipsets

Consectetur adipisicing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.

Embedded Chipsets

Embedded Chipsets

Current Chipsets

Keyword Search

Additional resources

- >> [Tunable Laser Technology](#)
- >> [Physical Layer Components](#)
- >> [Articles, Case Studies and White Papers](#)
- >> [Intel® Connects Cables](#)

NOTES:

A) Bread Crumb Links

Bread crumb trail should accommodate users who have navigated here either through "Chipsets" category page or "Embedded" category page or through an external link. Both parent categories should be available in bread crumb links.

Chipset	Number of Processors	Processors	System Bus	Resources
Mobile Intel® GME965 Express chipset	1	Intel® Core™2 Duo processor T7500Δ at 2.2 GHz with 34 watts thermal design power (TDP) Intel Core 2 Duo processor L7500Δ at 1.6 GHz (17 watts TDP)	800/533MHz	> Tech Docs > Tools & Software > Product Brief
Intel® Q965 Express Chipset	1	Intel® Core™2 Duo processor E6400Δ, Intel® Core™2 Duo processor E4300Δ, Intel® Pentium® 4 processor 651 and Intel® Celeron® D processor 352	1066/800/533 MHz	> Tech Docs > Tools & Software > Product Brief

Intel® Q965 Express Chipset

for Embedded Computing

- Overview | **Technical Documents** | Tools & Software | Solutions | Where to Buy

The Intel® Q965 Express chipset offers features that specifically address key requirements of many embedded computing designs, including memory performance, graphics, manageability, responsiveness, noise reduction and data protection. When combined with the Intel® Core™2 Duo processor E6400Δ or E4300Δ, it creates an impressive platform that can help embedded equipment manufacturers deploy more responsive, high-performance, low-power systems for interactive clients (i.e., point-of-sale terminals and ATMs), industrial control and automation, gaming, digital security surveillance, and medical imaging applications.

Product information

>> [Download Product Brief](#) (PDF 370KB)

Features & benefits

1066/800/533 MHz System Bus

Supports the Intel® Core™2 Duo processor E6400Δ, Intel® Core™2 Duo processor E4300Δ, Intel® Pentium® 4 processor 651 and Intel® Celeron® D processor 352

PCI Express* Interfaces

PCI Express x16 graphics interface in the GMCH supports the latest high-performance graphics cards
PCI Express x1 I/O ports in the ICH offer up to 3.5X the bandwidth over traditional PCI architecture, delivering faster access to peripheral I/O devices

Intel® Fast Memory Access (Intel® FMA)

Helps improve system performance by optimizing use of available memory bandwidth and reducing latency of memory access by monitoring all pending read/write requests; allows safe and efficient overlapping of commands on all system bus interfaces

Dual-Channel DDR2 Memory Support

Delivers up to 12.8 GB/s of bandwidth and 8 GB memory addressability for faster system responsiveness with support for 64-bit computing
Supports up to four DIMMS, two devices per channel (DDR2 800/667/533 MHz)

Intel® Graphics Media Accelerator 3000 (Intel® GMA 3000)

Delivers richer visual color and picture clarity without the need for additional discrete graphics cards
Dual independent display expands viewable workspace for devices such as point-of-sale terminals with two monitors
Provides next-generation graphics performance for advanced embedded operating systems

Intel® 5000P Chipset for Dual-Core Intel® Xeon® Processor 5100 Series and Quad-Core Intel® Xeon® Processor 5300 Series	1	Dual-Core Intel® Xeon® Processor 5100 Series and Quad-Core Intel® Xeon® Processor 5300 Series	800/533MHz	> Tech Docs > Tools & Software > Product Brief
Intel® 3100 Chipset for Intel® Core™2 Duo processors, Intel® Core™ Duo processors and Intel® Celeron® M processors on 65nm	1	Intel® Core™2 Duo processors, Intel® Core™ Duo processors and Intel® Celeron® M processors on 65nm	1066/800/533 MHz	> Tech Docs > Tools & Software > Product Brief

Fold--

Expand / Collapse


[Home](#) > [Products](#) > [Communications](#) > [Optical](#)
[Print](#) | [Email](#)

Optical Products and Technologies

Consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat.

Optical Transceivers

Telecom Transceivers
 300-Pin

Keyword Search

Additional resources

- >> [Tunable Laser Technology](#)
- >> [Physical Layer Components](#)
- >> [Articles, Case Studies and White Papers](#)
- >> [Intel® Connects Cables](#)

Intel offers Multi-Source Agreement (MSA)-compliant optical module solutions for OC-192/STM-64 interfaces. Applications vary from: Optical switches and routers, Dense Wavelength Division Multiplexing (DWDM) terminals and much more.

Telecom Transceivers			
Product	Description	Wave Length	Reach
300-Pin			
TXN13600	Tunable Optical Transceiver	1528.77 nm - 1563.86 nm 1570.01 nm - 1607.04 nm	80 km
TXN13220/1/4/5/7/8	Small Form Factor 10Gbps Optical Transceivers	1310 nm, 1500 nm	7 km, 10 km, 40 km

Intel® TXN13220/1/4/5/7/8

Small Form Factor 10Gbps Optical Transceivers

Intel® optical components are modular building blocks that enable networking equipment manufacturers to create standards-based products with shorter time to market and reduced development costs. Developers can use these opto-electronic components to build optical network solutions to meet a variety of high-bandwidth requirements in SONET/SDH, Optical Transport Network or Ethernet networks.

Technical Documents

- >> [Download Product Brief](#) (PDF 370KB)
- >> [Tech Doc 2](#)

Product overview

The Intel® TXN13220/1/4/5/7/8 Small Form Factor 10Gbps Optical Transceivers are designed to provide an interface between the physical layer and the data link layer. The small footprint and low power dissipation of the module makes it ideal for cost-effective, high-performance client-side interfaces in telecom as well as core-enterprise switches, routers, multi-service provisioning platforms and optical transport solutions.

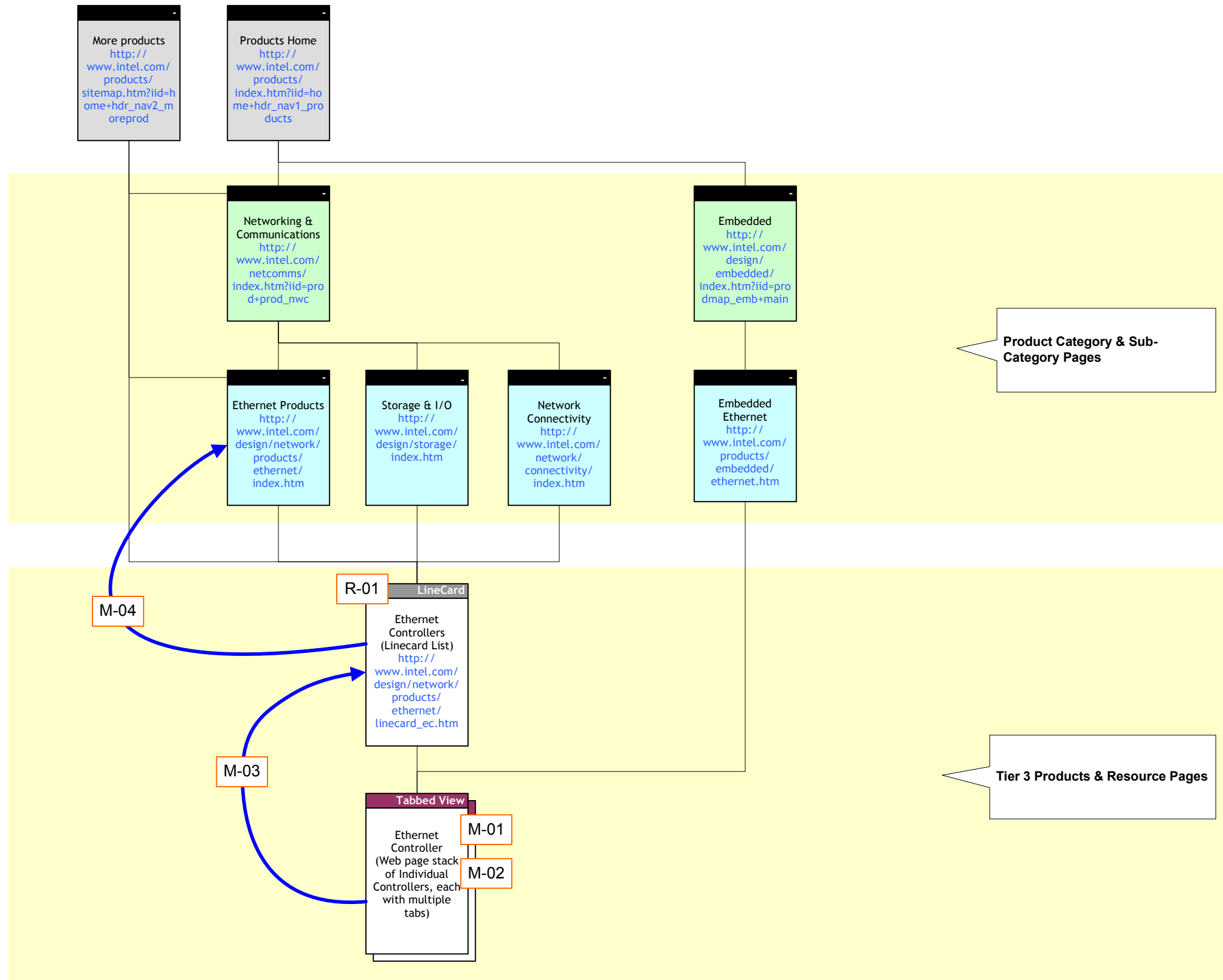
The Intel® TXN13220/1/4/5/7/8 Transceiver family provides an optical transmitter and receiver pair integrated with an electrical multiplexer (MUX) and demultiplexer (DeMUX). The module multiplexes/demultiplexes 16 channels from a differential Low-Voltage Differential Signal (LVDS) parallel data bus into a serial optical signal running at line-rates from 9.953 to 10.709Gbps. An integrated microprocessor provides robust control and monitoring of the module through an I2C interface on the 300-pin Berg* MEG-Array connector.

The transmitter contains a semi-cooled 1310nm Distributed Feedback (DFB) laser or a cooled 1550nm Electro-absorption Modulated Laser (EML) with integrated laser driver, launched into a single-mode optical fiber pigtail. A control-loop ensures optimal performance and stable output power over the operating temperature range of the device. The receiver includes a PIN photodiode and transimpedance amplifier, which operate over both the 1.3µm and 1.5µm bands.

The Intel® TXN13220/1/4/5/7/8 Transceiver family can be configured to supply a single- or dual-rate SONET/SDH, SONET+ Forward Error Correction (FEC) or 10Gb Ethernet interface, with optional clock jitter filtering. The module satisfies link distances from 0 to 40km. Various heat sink and optical connector options are available to satisfy a range of applications. The transceiver is assembled in a Multi-Source Agreement (MSA)-compatible package that is a minimum size of 3.0" L x 2.2" W x 0.43" H.

TXN13600	Tunable Optical Transceiver	1528.77 nm - 1563.86 nm 1570.01 nm - 1607.04 nm	80 km
TXN13220/1/4/5/7/8	Small Form Factor 10Gbps Optical Transceivers	1310 nm, 1500 nm	7 km, 10 km, 40 km

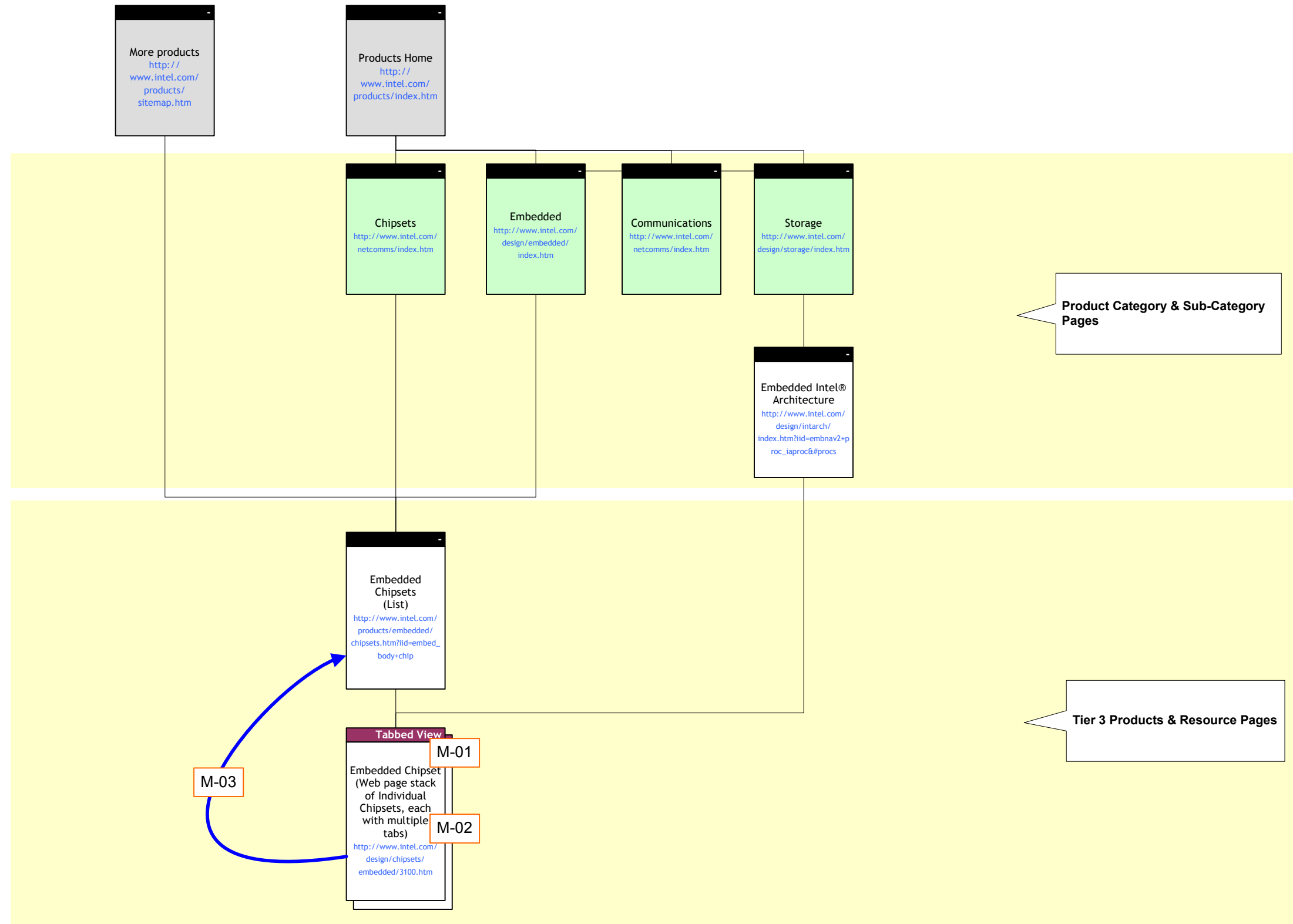
Ethernet



Explanation

- M-01 Merge tabs (Overview, Tech Docs, Where to Buy) for each Ethernet controller (single product) into AJAX style view
- M-02 Merge Stack of pages (multiple products) into One AJAX style page
- M-03 Merge content with parent page
- R-01 Redesign Tabs (groups of products) view to AJAX style Expand/Collapse view,
- M-04 Merge content with parent page, create dynamic "product & resource" combination page

Embedded Chipsets



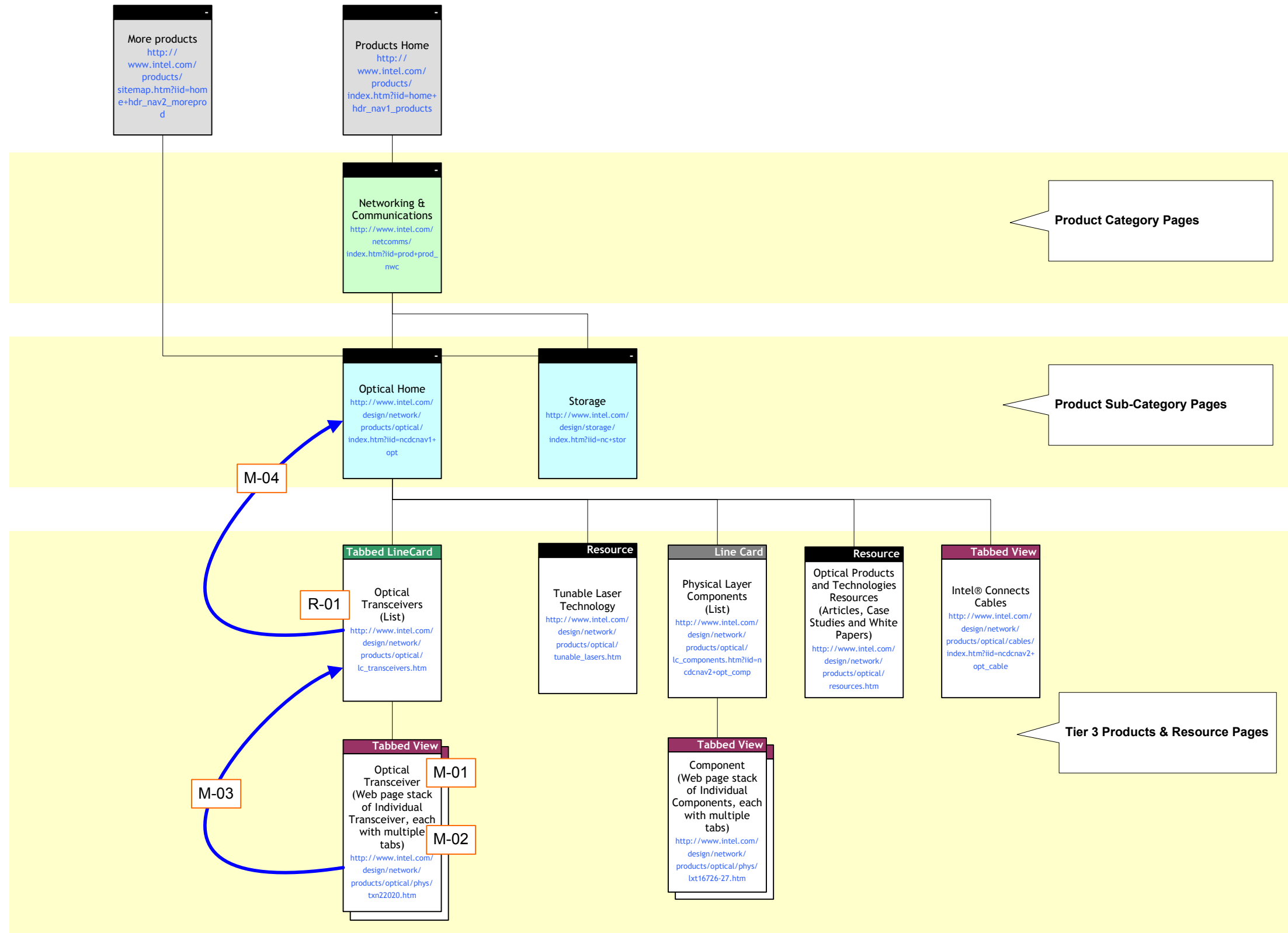
Product Category & Sub-Category Pages

Tier 3 Products & Resource Pages

Explanation

- M-01** Merge tabs for each embedded chipset (single product) into AJAX style single page view
 - M-02** Merge Stack of pages (multiple embedded chipsets) into single AJAX style page
 - M-03** Merge content with parent page – redesign list view to linecard view, create dynamic “product & resource” combination page
- See Server Chipset linecard example: http://www.intel.com/products/server/chipsets/index.htm?id=chips_body+serv

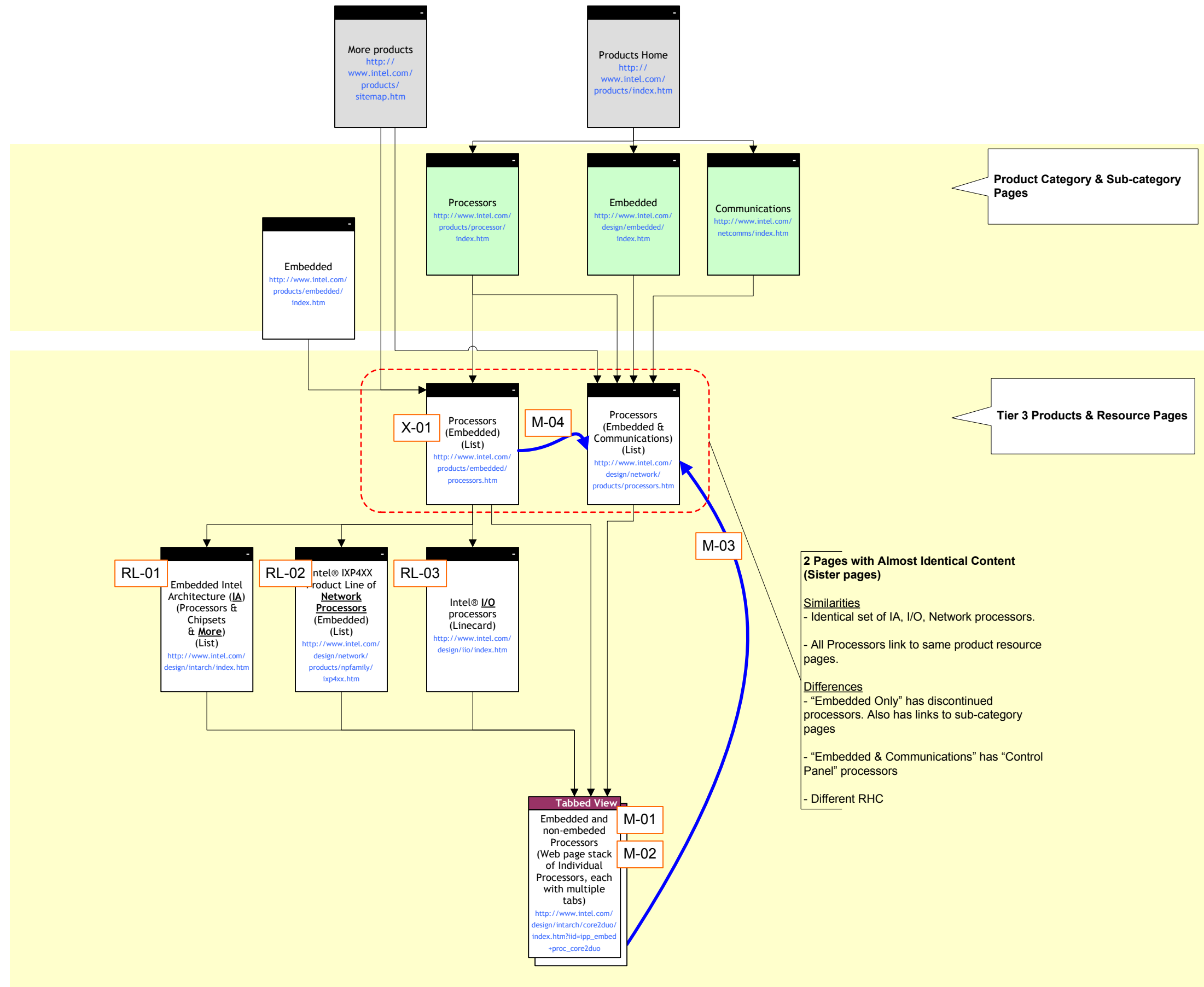
Optical Products and Technologies



Explanation

- M-01** Merge tabs for each transceiver (single product) into AJAX style view
- M-02** Merge Stack of pages (multiple products) into One AJAX style page
- M-03** Merge content with parent page
- R-01** Redesign Tabs (groups of products) view to AJAX style Expand/Collapse view
- M-04** Merge content with parent page, create dynamic "product & resource" combination page

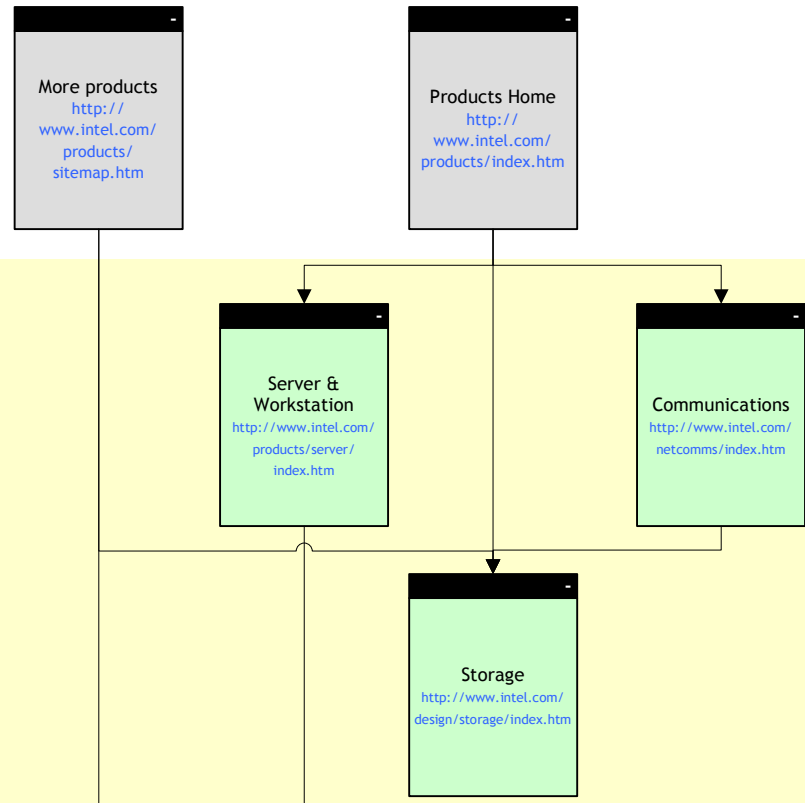
Embedded & Network Communication Processors



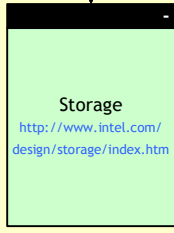
Explanation

- M-01** Merge tabs for each processor (single product) into AJAX style single page view
- M-02** Merge Stack of pages (multiple processor) into single AJAX style page
- M-03** Merge content with parent page, add "Embedded" checkbox option, create dynamic "product & resource" combination page
- M-04** Merge supporting body content with sister page, add "Embedded" checkbox/ pull-down menu option, re-design list view to linecard view. Create links to sub-category processor pages (IA, I/O, Network, Control Panel)
- X-01** Delete page, redirect incoming links to newly designed dynamic "product & resource" combination page
- RL-01** **RL-02** **RL-03** Re-link to newly created dynamic "product & resource" combination page

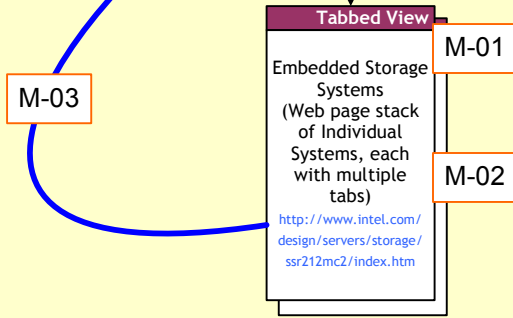
Storage



Product Category & Sub-category Pages



Tier 3 Products & Resource Pages



Explanation

- M-01 Merge tabs for each storage system (single product) into AJAX style single page view
- M-02 Merge Stack of pages (multiple storage systems) into single AJAX style page
- M-03 Merge content with parent page – redesign list view to linecard view, create dynamic “product & resource” combination page