INTEL® COMPUTE CARD

TRANSFORMING COMPUTING

Pushing the boundaries of where and how technology enriches life

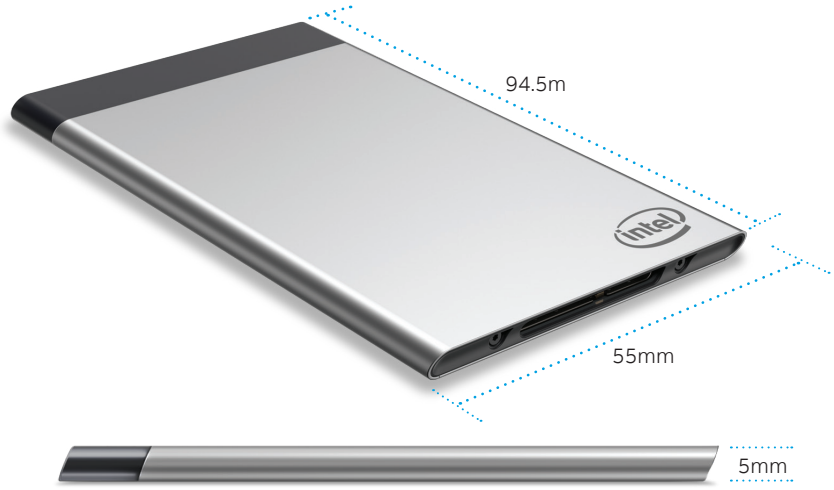
CONTINUALLY

DRIVING INNOVATION

A Powerful PC small enough to fit in your wallet

With Intel® brand processors and everything your customers need—including RAM, storage, and WiFi—already built-in, the Intel® Compute Card is the new compute standard for smart devices, and delivers the power of a PC in a device about the size of a credit card.

This tiny computer has a universal interface which allows it to be plugged into any host device with an Intel Compute Card slot, including an Intel-designed dock. The modular nature of the Compute Card means that computing power can be found in unexpected places. Suddenly it is easy to integrate compute and connectivity into everything.



INTEL® PROCESSORS | RAM | WIFI | ON-BOARD STORAGE
BLUETOOTH* | SECURITY LATCH

1 DESIGN
2 UPGRADEABILITY
3 SERVICEABILITY
4 INTEGRATION

Delivering value

Revolutionary in size, form, and function, the Intel Compute Card brings tremendous value to designers, OEMs, manufacturers, distributors, channel partners, and, ultimately, their customers.

Simplified design – Imagine if your customers could simply insert an Intel Compute Card and create smart devices. With the Compute Card's standard interface, designers and manufacturers are free to do what they do best—create amazing new products—rather than learning how to integrate compute capabilities. The Compute Card along with Intel design guides and reference designs make it easy to create new products with compute power.

Refresh or upgrade – The ability to swap out a card for upgrade makes the Intel Compute Card a natural choice for your commercial and consumer customers because it allows for refresh of the compute separate from the device. It also makes upselling easier because you can simply drop in a Compute Card with a more powerful processor.

Serviceability – Whether you are an MSP remotely servicing business clients, a channel partner working with customers in the field, or an IT technician onsite, the Intel Compute Card simplifies serviceability. For technicians and IT engineers onsite, it's easy to carry multiple Compute Cards and replace a compute unit, getting a malfunctioning system back up and running quickly. In addition, systems with Intel® vPro™ technology can be remotely managed and remediated.

Delayed integration – The Intel Compute Card can enable new business models as well as mitigate risk and expense because OEMs, ODMs, and channel partners can add compute resources later in the manufacturing cycle. Equally important, retailers and channel members can now carry less inventory and manage their compute inventory loads closely.

INTEL COMPUTE CARD DETAILS

	CD1IV128MK	CD1m3128MK	CD1P64GK	CD1C64GK	CD1C32GK
PROCESSOR	Intel® Core™ i5 vPro™ processor 7Y57	Intel® Core™ m3 processor 7Y30	Intel® Pentium® processor N4200	Intel® Celeron® processor N3450	Intel® Celeron® processor N3350
RAM	8 GB soldered, dual-channel LPDDR3-1866	4 GB soldered, dual-channel LPDDR3-1866	4 GB soldered, dual-channel LPDDR3-1866	4 GB soldered, dual-channel LPDDR3-1866	2 GB soldered, single-channel LPDDR3-1866
ON-BOARD STORAGE	128 GB soldered PCIe* x2 SSD	128 GB soldered PCIe x2 SSD	64 GB soldered eMMC 5.0, HS400	64 GB soldered eMMC 5.0, HS400	32 GB soldered eMMC 5.0, HS400
NETWORKING	Intel® Wireless-AC 8265 soldered, IEEE 802.11g/n/ac 2x2 + Bluetooth* 4.2, internal antennas	Intel Wireless-AC 8265 soldered, IEEE 802.11g/n/ac 2x2 + Bluetooth 4.2, internal antennas	Intel® Wireless-AC 7265 soldered, IEEE 802.11g/n/ac 2x2 + Bluetooth 4.2, internal antennas	Intel Wireless-AC 7265 soldered, IEEE 802.11g/n/ac 2x2 + Bluetooth 4.2, internal antennas	Intel Wireless-AC 7265 soldered, IEEE 802.11g/n/ac 2x2 + Bluetooth 4.2, internal antennas
SECURITY	Support for mechanical security latch	Support for mechanical security latch	Support for mechanical security latch	Support for mechanical security latch	Support for mechanical security latch
DIMENSIONS	94.5mm x 55mm x 5mm	94.5mm x 55mm x 5mm	94.5mm x 55mm x 5mm	94.5mm x 55mm x 5mm	94.5mm x 55mm x 5mm

Card connectivity

One of the benefits of the Intel Compute Card is that it is created with flexibility in mind. Because of the wide range of connections possible, device designers can decide which features are most important for their systems and choose appropriately. The chart below shows you several of the options available, but for complete details, consult the product spec guidelines.

	Type C Only		Type C + Extension	
	Option A	**Option B**	**Option A**	**Option B**
DISPLAY**	1 x @ 4K	1 x @1080P	2 x @ 4K	1 x @ 4K and 1 x 1080P
USB	1 USB 2.0	1 USB 3.0 and 1 USB 2.0	1 USB 3.0 and 2 USB 2.0	2 USB 3.0 and 2 USB 2.0
PCIe*	None	None	2 PCIe x1 lanes	2 PCIe x1 lanes
POWER NEEDED	12V DC	12V DC	12V DC	12V DC

**The Type C portion provides one DP 1.2 only. The extension provides either one DP 1.2 or HDMI* 1.4.

CONNECTING DEVICES

Buy, customize, build: reach customers your way

Whether your customers have a Compute Card-enabled device or not, the Intel® Compute Card dock makes modular computing a reality. You can purchase a dock that enables all four Compute Cards[1] available to create a range of products for home or businesses. Simply plug the card in, hook up an HDMI* display and peripherals to the USB 3.0 ports, and your clients have an amazing, modular mini PC. Or, upgrade your clients' digital signage without having to replace the display. Or, easily create conference room collaboration solutions that are small and discrete, yet powerful. The possibilities are endless.

Intel has developed a reference design dock, too, which can be customized and integrated into products, greatly simplifying new product development, with the same end-result—powerful, more intelligent devices that are easy to upgrade and service.

A Compute Card Device Guideline Document is also available. The document describes all the requirements you must meet to be able to use an Intel Compute Card in your design, along with ideas on how to determine the best way to build compute into your specific device—including ways you might embed, cool, and eject the Compute Card.

Networking
Intel® Ethernet Controller I211-AT, IEEE 802.3u, IEEE 802.3ab, RJ45 with dual LEDs, 10/00/1000 Mbps

Connectivity
HDMI* v1.4, Mini DisplayPort* 1.2, LAN RJ-45, 3 USB 3.0 ports

Security
Soft lock and hard lock supported

Power Button
Located on front panel

Power
19V DC

[1] To take advantage of the remote repair and remediation of Intel® vPro™ technology in the Intel Compute Card CD1I5128MK, you must use the built-in WiFi rather than Ethernet.

Growing ecosystem

Whether you want to customize your own design and work with our ODM partners, create your own device using Intel reference designs and design guidelines, or simply purchase a Compute Card-ready device, Intel has a wide ecosystem of third-party vendors who can help.

Products currently under development include displays, interactive whiteboards, laptops, all-in-ones, and more. As these products come to market, Intel will provide you with information on the new products and the ways Intel and their partners are revolutionizing computing.

The Intel® Compute Card lets you create the exact experience your customers want. With systems built on Intel processors, Intel® SSDs, and Intel® wireless—you know you're getting the best of Intel built into a tiny device once thought unimaginable. The Compute Card is an amazing, innovative move forward—not an evolution, but a true revolution in size, form, and function.

The Intel® Compute Card: The future is smart.
intel.com/computecard

intel® experience what's inside™

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