

Embedded Peripheral Modules

Embedded Peripheral Modules provide LAN, Serial Port, Storage and Display functionality to embedded systems. In order to enrich industrial customer's embedded solutions with flexibility at the best TCO (Total Cost of Ownership), we are dedicated to creating expandable, space-efficient expansion modules.

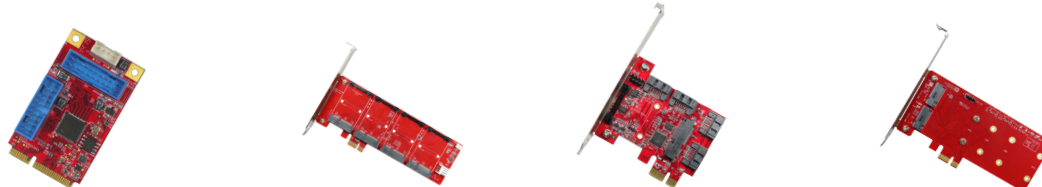
Innodisk is experienced with the most common signals, which include PCIe, USB, SATA, PATA, SD and Display and is able to provide this functionality in the wide range of space-saving form factors available today. Just like Innodisk's esteemed memory solutions, our Standard PCIe, mPCIe, 2.5" SSD, DDR3 and M.2(NGFF) modules fit perfectly into any industrial system.

Storage

Innodisk specializes in wide range of storage interface including PCIe/SATA/USB/PATA. Our modules allow system integrator to expand or convert those interfaces in embedded system.



Model Name	EMPS-3201	EMPS-3401	EGPS-3401	EMP4-1101	EMPU-3201
Module Type	mPCIe to dual SATA III module	mPCIe to four SATA III module	M.2 3042 to four SATA module	mPCIe to PATA module	mPCIe to dual USB 3.0 module
Key Features	<ol style="list-style-type: none"> 1. PCIe 2.0 to dual SATA III ports 2. Low power consumption 3. Supports AHCI, port-multiplier 4. 30μ golden finger, 3 years warranty 	<ol style="list-style-type: none"> 1. PCIe 2.0 to four SATA III ports 2. Supports AHCI, port-multiplier 3. Low power consumption 4. 30μ golden finger, 3 years warranty 	<ol style="list-style-type: none"> 1. PCIe 2.0 to four SATAIII ports 2. Supports AHCI, port-multiplier 3. Low power consumption 4. 30μ golden finger, 3 years warranty 	<ol style="list-style-type: none"> 1. mPCIe form factor with PATA 44pin connector 2. Ultra low power consumption 3. Excellent data transfer speed 4. Golden finger 30μ for high data transfer quality 	<ol style="list-style-type: none"> 1. Compliant with PCI Express Base Specification Revision 2.0 2. Compliant with Universal Serial Bus 3.0 Specification Revision 1.0 3. Supports 2 downstream USB 3.0 ports 4. Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV 5. 30μ golden finger, 3 years warranty.
Form-Factor	mPCIe	mPCIe	M.2 3042-B-M	mPCIe	mPCIe
Input I/F	PCI Express 2.0	PCI Express 2.0	PCI Express 2.0	PCI Express 1.0	PCI Express 2.0
Input Connector	mPCIe	mPCIe	M.2 3042-B-M	mPCIe	mPCIe
Output I/F	SATA III	SATA III	SATA III	PATA	USB 3.0
Output Connector	SATA 7 Pin x 2	SATA 7 Pin x 4	SATA 7 Pin x 4	44pin header x 1	19 Pin box header x 1
Dimensions(W*L*H/mm)	30.0 x 50.9 x 10.7	30.0 x 50.9 x 10.9	30.0 x 42 x 10.4	30.0 x 50.9 x 9.5	30.0 x 50.9 x 8.45
Temperature	STD temp : 0°~70°C Wide temp : -40°~85°C	STD temp : 0°~70°C Wide temp : -40°~85°C	STD temp : 0°~70°C	STD temp : 0°~70°C	STD temp : 0°C~70°C Wide temp : -40C~85°C
Order Info.	EMPS-3201-C1 EMPS-3201-W1	EMPS-3401-C1 EMPS-3401-W1	EGPS-3401-C1	EMP4-1101-C1	EMPU-3201-C1 EMPU-3201-W1



Model Name	EMPU-3401	ESPP-2401	ESPS-3401	ESPS-3201
Module Type	mPCIe to four USB 3.0 module	PCIe to four mPCIe expansion card	PCIe to four SATA III card	PCIe to dual M.2 RAID module
Key Features	<ol style="list-style-type: none"> 1. PCI Express 2.0 to 4 x USB ports with SuperSpeed (5Gbps) data rate 2. Independent 1.5A overcurrent protection (OCP) for each port 3. Compliant with xHCI 1.0, USB 3.0 Rev 1.0 4. Supports USB battery charging specification revision 1.2 5. 30μ golden finger, 3 years warranty 	<ol style="list-style-type: none"> 1. PCI Express base SPEC 2.0 x 1 (backward compatible with SPEC 1.1 & 1.0a) 2. Supports four mPCIe slots 3. Low profile PCI Express card form factor 4. On board power output 5. 30μ golden finger, 3 years warranty 	<ol style="list-style-type: none"> 1. PCIe 2.0 to four SATA III ports 2. Supports AHCI, port-multiplier 3. Low power consumption 4. 30μ golden finger, 3 years warranty 	<ol style="list-style-type: none"> 1. PCIe to dual M.2 ports. 2. Supports M.2 Key-B 2242/2260/2280/22110 3. Low power consumption 4. Supports AHCI, port-multiplier 5. Supports native command queuing 6. 30μ golden finger, 3 years warranty
Form-Factor	mPCIe	Standard PCIe	Standard PCIe	Standard PCIe
Input I/F	PCI Express 2.0	PCI Express 2.0	PCI Express 2.0	PCI Express 2.0
Input Connector	mPCIe	PCIe x 1	PCIe x 1	PCIe x 1
Output I/F	USB 3.0 x 4	PCI Express 2.0	SATA III	SATA III
Output Connector	19 Pin box header x 2	mPCIe x 4	SATA 7 Pin x 4, mSATA x 1	M.2 Key-B x 2
Dimensions(W*L*H/mm)	30.0 x 50.9 x 8.45	163.65 x 68.9 x 10.25	72.1 x 69.8 x 8.3	130.35 x 68.9 x 12
Temperature	STD temp : 0°~70°C Wide temp : -40°~85°C	STD temp : 0°~70°C	STD temp : 0°~70°C	STD temp : 0°~70°C Wide temp : -40°~85°C
Order Info.	EMPU-3401-C1 EMPU-3401-W1	ESPP-2401-C1	ESPS-3401-C1	ESPS-3201-C1 ESPS-3201-W1

Disk Array

Innodisk provides RAID (Redundant Array of Independent Disks) modules to combine multiple types of embedded flash for the purposes of data redundancy or capacity aggregation.



Model Name	EMSS-32R1	EMPS-32R1	EGSS-32R1	E2SS-32R1	E2SS-32R2	ESPS-32R1
Module Type	mPCIe to dual SATA III RAID module	mPCIe to dual SATA III RAID module	M.2 2242 to SATA RAID module	2.5" SSD to dual mSATA RAID module	2.5" SSD to dual M.2 RAID module	PCIe to dual M.2 RAID module
Key Features	<ol style="list-style-type: none"> Supports SATA to dual SATA III Port Multiplier. Supports H/W RAID 0/1 over SATA. 30μ golden finger, 3 years warranty. 	<ol style="list-style-type: none"> PCIe to dual SATA III ports Supports AHCI, port-multiplier Supports hardware RAID 0, RAID1 	<ol style="list-style-type: none"> Supports SATA to dual SATA III port multiplier Supports H/W RAID 0/1 over SATA 	<ol style="list-style-type: none"> 2.5" SSD to dual mSATA slots Supports SATA III to SATA III port multiplier Supports H/W RAID 0/1 over SATA Excellent data transfer speed 	<ol style="list-style-type: none"> 2.5" SSD to dual M.2 2280 slots Supports SATA III to SATA III port multiplier Supports H/W RAID 0/1 over SATA Excellent data transfer speed 	<ol style="list-style-type: none"> PCIe to dual M.2 ports Supports M.2 Key-B 2242/2260/2280 Supports AHCI, port-multiplier Supports native command queuing Supports hardware RAID 0, RAID1
Form-Factor	mSATA	mPCIe	M.2 2242-B-M	2.5" SSD	2.5" SSD	Standard PCIe
Input I/F	SATA III	PCI Express 2.0	SATA III	SATA III	SATA III	PCI Express 2.0
Input Connector	mPCIe	mPCIe	M.2 2242-B-M	SATA 7+15 Pin	SATA 7+15 Pin	PCIe x 1
Output I/F	SATA III	SATA III	SATA III	SATA III	SATA III	SATA III
Output connector	SATA 7 Pin x 2	SATA 7 Pin x 2	SATA 7 Pin x 2	mSATA x 2	M.2 2242/2260/2280 x 2	M.2 Key-B x 2
Dimensions(W*L*H/mm)	29.8 x 50.8 x 11.5	30.0 x 50.9 x 10.7	22.0 x 42 x 10.8	69.85 x 100.1 x 11	69.85 x 100.1 x 11	130.35 x 68.9 x 12
Temperature	STD temp : 0°~70°C Wide temp : -40°~85°C	STD temp : 0°~70°C Wide temp : -40°~85°C	STD temp : 0°~70°C Wide temp : -40°~85°C	STD temp : 0°~70°C	STD temp : 0°~70°C	STD temp : 0°~70°C Wide temp : -40°~85°C
Order Info.	EMSS-32R1-C1 EMSS-32R1-W1	EMPS-32R1-C1 EMPS-32R1-W1	EGSS-32R1-C1 EGSS-32R1-W1	E2SS-32R1-C1	E2SS-32R2-C1	ESPS-32R1-C1 ESPS-32R1-W1

Display card

Innodisk's embedded graphic card features a 2D graphic engine and supports resolutions up to 1920 x 1080. With fanless design, our mPCIe graphic cards can operate at -40°C to 85°C environment. Windows and Linux drivers are supported to fit into different industrial platforms.



Model Name	EMPV-1201	EMPV-1202
Module Type	mPCIe to dual VGA & HDMI(DVI) module	mPCIe to VGA & 18/24 bit LVDS module
Key Features	<ol style="list-style-type: none"> mPCIe to dual VGA & HDMI graphic card VGA output: 1920x1080, up to 75Hz vertical rate HDMI/DVI up to 1080p, ultra low power consumption Optional VGA/HDMI/DVI cable 90°, 180°, and 270° rotation of on-screen images 	<ol style="list-style-type: none"> VGA output up to 1920x1080, up to 75Hz vertical rate LVDS resolution supports up to 1600 x 1200 EMPV-1202-C1 supports 18/24 bit JEIDA LVDS EMPV-1202-C2 supports 24 bit VESA LVDS Allow for 90°, 180°, and 270° rotation of on-screen images
Form-Factor	mPCIe	mPCIe
Input I/F	PCI Express 1.0	PCI Express 1.0
Input Connector	mPCIe	mPCIe
Output I/F	VGA x 2, HDMI x 1(Optional DVI x 1)	VGA, 18/24 bit LVDS
Output Connector	40pin 1.25mm x 2 (40DP-1.25)	40pin 1.25mm x 1 (40DP-1.25)
Dimensions(W*L*H/mm)	31.5 x 50.9 x 8.2	30.0 x 50.9 x 8.2
Temperature	STD temp : 0°~70°C Wide temp : -40°~85°C	STD temp : 0°~70°C Wide temp : -40°~85°C
Order Info.	EMPV-1201-C1 EMPV-1201-W1	EMPV-1202-C1, EMPV-1202-W1 EMPV-1202-C2, EMPV-1202-W2

Communication

The series aim to provide flexible connectivity and bandwidth to industrial systems. With our mPCIe GbE, CANBus and serial communication modules, users can expand the existing system to meet dynamic connectivity under IoT.



Model Name	EMUC-B201	EMU2-X2S1	EMU2-X1S1
Module Type	USB to dual isolated CANbus 2.0B module	USB to dual isolated RS-232 module	USB to Single isolated RS-232 module
Key Features	<ol style="list-style-type: none"> mPCIe form factor. Two channels CANbus 2.0B (DB-9 x 2) backward compatible with 2.0A Complies with EN61000-4-5 2.5kV Surge protection Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2.5kV HiPOT protection Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV Supports -40 to +85 degrees Supports 3rd mounting hole and USB Pin header for out-of-minicard installation Supports baud rate 50/125/250/500/1000K Termination resistor enabled/disabled by jumper 	<ol style="list-style-type: none"> USB specification Rev. 2.0 compliant Up to 1 Mbps serial data rate. 512-byte FIFOs Full RS232 functions with DB9 connector Supports port-to-port and port-to-computer isolation, complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2.5kV HiPOT protection Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV Supports 3rd mounting hole and USB Pin header for out-of-minicard installation Industrial temperature(-40 °C to 85 °C) operation 	<ol style="list-style-type: none"> USB specification Rev. 2.0 compliant Up to 1 Mbps serial data rate. 512-byte FIFOs Full RS232 functions with DB9 connector Supports port-to-port and port-to-computer isolation, complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2.5kV HiPOT protection Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV Supports 3rd mounting hole and USB Pin header for out-of-minicard installation Industrial temperature(-40 °C to 85 °C) operation
Form-Factor	mPCIe	mPCIe	mPCIe
Input I/F	USB 2.0	USB 2.0	USB 2.0
Input Connector	mPCIe or 5Pin Header	mPCIe or 5Pin Header	mPCIe or 5Pin Header
Output I/F	CANbus 2.0B x 2	RS-232 x 2	RS-232 x 1
Output Connector	DB-9 x 2	DB-9 x 2	DB-9 x 1
Dimensions(W*L*H/mm)	30.0 x 50.9 x 6.1	30.0 x 50.9 x 6.1	30.0 x 50.9 x 6.1
Temperature	Wide temp : -40°-85°C	Wide temp : -40°-85°C	Wide temp : -40°-85°C
Order Info.	EMUC-B201-W1	EMU2-X2S1-W1	EMU2-X1S1-W1



Model Name	EMP2-X203	EMP2-X403	EMP2-X404	EMPL-G101	EMPL-G201
Module Type	mPCIe to two RS-232 module	mPCIe to four RS-232 module	mPCIe to four RS-232/422/485 module	mPCIe to single GbE LAN module	mPCIe to dual GbE LAN module
Key Features	<ol style="list-style-type: none"> PCI-Express specification Rev. 2.0 compliant Up to 1 Mbps serial data rate. 16550 compatible 256-byte FIFOs Industrial temperature (-40 °C to 85 °C) operation Flexible design with DB-9 connectors and cable ESD up to 15KV(Electrostatic Discharge) protection circuit to prevent system damage Supports CTS/RTS hardware flow control 	<ol style="list-style-type: none"> PCI-Express specification Rev. 2.0 compliant Up to 1 Mbps serial data rate. 16550 compatible 256-byte FIFOs Industrial temperature (-40 °C to 85 °C) operation Flexible design with DB-9 connectors and cable ESD up to 15KV(Electrostatic Discharge) protection circuit to prevent system damage Supports CTS/RTS hardware flow control 	<ol style="list-style-type: none"> PCIe 2.0 compliant. RS-232/422/485 mode configurable by software Up to 25 Mbps serial data rate. 16C550 compatible. 256-byte FIFOs Industrial temperature (-40 °C to 85 °C) operation Full DB9 connector without daughter board, can avoid possible mechanical intervention Termination resistor enabled/disabled by DIP switch R/15V/12V output switched by jumper ESD(Electrostatic Discharge) protection circuit to prevent system damage 	<ol style="list-style-type: none"> Single isolated GbE LAN ports Complies with EN61000-4-5 2kV surge protection Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2kV HiPOT protection Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV Flexible daughter board with cable to fit into different system Supports mounting terminal or bracket for daughter board Optional industrial temperature(-40°C to +85°C) support 	<ol style="list-style-type: none"> Dual isolated GbE LAN ports Complies with EN61000-4-5 2kV surge protection Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2kV HiPOT protection Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV Flexible daughter board with cable to fit into different system Supports mounting terminal or bracket for daughter board Optional industrial temperature (-40°C to +85°C) support
Form-Factor	mPCIe	mPCIe	mPCIe	mPCIe	mPCIe
Input I/F	PCI Express 2.0	PCI Express 2.0	PCI Express 2.0	PCI Express 2.1	PCI Express 2.1
Input Connector	mPCIe	mPCIe	mPCIe	mPCIe	mPCIe
Output I/F	RS-232 x 2	RS-232 x 4	RS-232/422/485 x 4	GbE LAN x 1	GbE LAN x 2
Output Connector	DB-9 x 2	DB-9 x 4	DB-9 x 4	RJ45 x 1	RJ45 x 2
Dimensions(W*L*H/mm)	30.0 x 50.9 x 6.7	30.0 x 50.9 x 6.7	30.0 x 50.9 x 6.1	30.0 x 50.9 x 6.1	30.0 x 50.9 x 6.1
Temperature	Wide temp : -40°-85°C	Wide temp : -40°-85°C	Wide temp : -40°-85°C	STD temp : 0°-70°C Wide temp : -40°-85°C	STD temp : 0°-70°C Wide temp : -40°-85°C
Order Info.	EMP2-X203-W1	EMP2-X403-W1	EMP2-X404-W1	EMPL-G101-C1 EMPL-G101-W1 EMPL-G101-C2(with bracket) EMPL-G101-W2 (with bracket)	EMPL-G201-C1 EMPL-G201-W1 EMPL-G201-C2(with bracket) EMPL-G201-W2 (with bracket)



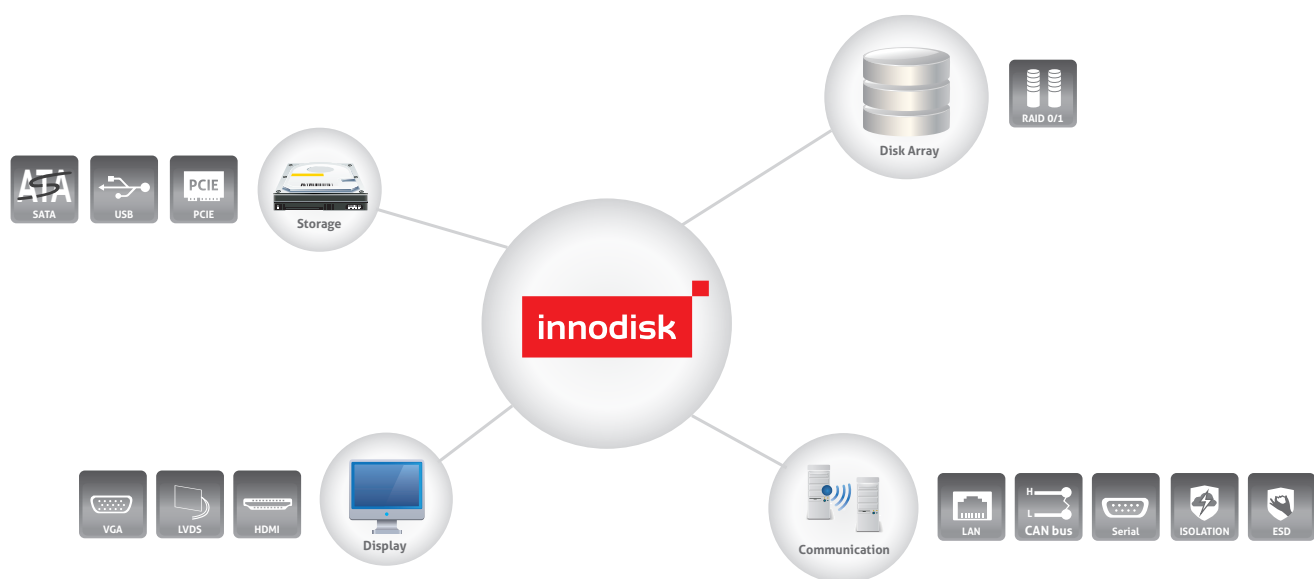
Model Name	EMP2-X401	EMP2-X801	EMP2-X202	EMP2-X402
Module Type	mPCIe to four RS-232/422/485 module	mPCIe to eight RS-232/422/485 module	mPCIe to two RS-422/485 module	mPCIe to four RS-422/485 module
Key Features	<ol style="list-style-type: none"> 1. PCIe 2.0 compliant. RS-232/422/485 mode configurable by software 2. Up to 25 Mbps serial data rate 16C550 compatible. 256-byte FIFOs 3. Industrial temperature (-40 °C to 85 °C) operation 4. Flexible design with cable (GPIO cable, serial cable) and GPIO board x 1, daughter board x 4 (with DB-9 connectors) 5. Termination resistor and 5V/12V output by jumper setting on daughter board 6. ESD(Electrostatic Discharge) protection circuit to prevent system damage 	<ol style="list-style-type: none"> 1. PCIe 2.0 compliant. RS-232/422/485 mode configurable by software 2. Up to 25 Mbps serial data rate 16C550 compatible. 256-byte FIFOs 3. Industrial temperature (-40 °C to 85 °C) operation 4. Flexible design with cable and daughter board x 8 (with DB-9 connectors) 5. Termination resistor and 5V/12V output by jumper setting on daughter board 6. ESD(Electrostatic Discharge) protection circuit to prevent system damage 	<ol style="list-style-type: none"> 1. PCIe 2.0 compliant. RS-422/485 mode configurable by switch. Supports 485HD(Half Duplex) and 485FD(Full Duplex) 2. Up to 25 Mbps serial data rate. 16C550 compatible. 256-byte FIFOs 3. Industrial temperature (-40 °C to 85 °C) operation 4. Flexible design with DB-9 connectors and cable 5. Termination Resistor by jumper setting 6. ESD up to 15KV(Electrostatic Discharge) protection circuit to prevent system damage 	<ol style="list-style-type: none"> 1. PCIe 2.0 compliant. RS-422/485 mode configurable by switch. Supports 485HD(Half Duplex) and 485FD(Full Duplex) 2. Up to 25 Mbps serial data rate. 16C550 compatible. 256-byte FIFOs 3. Industrial temperature (-40 °C to 85 °C) operation 4. Flexible design with DB-9 connectors and cable 5. Termination resistor by jumper setting 6. ESD up to 15KV(Electrostatic Discharge) protection circuit to prevent system damage
Form-Factor	mPCIe	mPCIe	mPCIe	mPCIe
Input I/F	PCI Express 2.0	PCI Express 2.0	PCI Express 2.0	PCI Express 2.0
Input Connector	mPCIe	mPCIe	mPCIe	mPCIe
Output I/F	RS-232/422/485 x 4	RS-232/422/485 x 8	RS-422/485 x 2	RS-422/485 x 4
Output Connector	DB-9 x 4	DB-9 x 8	DB-9 x 2	DB-9 x 4
Dimensions(W*L*H/mm)	30.0 x 50.9 x 6.1	30.0 x 50.9 x 6.1	30.0 x 50.9 x 8.2	30.0 x 50.9 x 8.2
Temperature	Wide temp : -40°-85°C	Wide temp : -40°-85°C	Wide temp : -40°-85°C	Wide temp : -40°-85°C
Order Info.	EMP2-X401-W1	EMP2-X801-W1	EMP2-X202-W1	EMP2-X402-W1



Model Name	EGPL-G101	EGPL-G201	EGUL-G101	EGUL-G201
Module Type	M.2 2280 to single isolated GbE LAN module	M.2 2280 to dual isolated GbE LAN module	M.2 2260 to single isolated GbE LAN module	M.2 2260 to dual isolated GbE LAN module
Key Features	<ol style="list-style-type: none"> 1. Single isolated GbE LAN port 2. Complies with EN61000-4-5 2kV Surge protection 3. Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2kV HiPOT protection 4. Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV 5. Flexible daughter board with cable to fit into different system 6. Optional terminal mounting hole or bracket for daughter board 	<ol style="list-style-type: none"> 1. Dual isolated GbE LAN ports 2. Complies with EN61000-4-5 2kV Surge protection 3. Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2kV HiPOT protection 4. Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV 5. Flexible daughter board with cable to fit into different system 6. Optional terminal mounting hole or bracket for daughter board 	<ol style="list-style-type: none"> 1. Single isolated GbE LAN port 2. Complies with EN61000-4-5 2kV surge protection 3. Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2kV HiPOT protection 4. Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV 5. Supports mounting terminal or bracket for daughter board 6. Supports native CDC-ECM driver in Linux, driver auto-install mode in Windows 	<ol style="list-style-type: none"> 1. Dual isolated GbE LAN port 2. Complies with EN61000-4-5 2kV surge protection 3. Complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2kV HiPOT protection 4. Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV 5. Supports mounting terminal or bracket for daughter board 6. Supports native CDC-ECM driver in Linux, driver auto-install mode in Windows
Form-Factor	M.2 2280	M.2 2280	M.2 2260	M.2 2260
Input I/F	PCI Express 2.1	PCI Express 2.1	USB 3.0	USB 3.0
Input Connector	M.2 B-M	M.2 B-M	M.2 B-Key	M.2 B-Key
Output I/F	GbE LAN x 1	GbE LAN x 2	GbE LAN x 1	GbE LAN x 2
Output Connector	RJ45 x 1	RJ45 x 2	RJ45 x 1	RJ45 x 2
Dimensions(W*L*H/mm)	30 x 50.9 x 7.05	30 x 50.9 x 7.1	22.0 x 60.0 x 6.1	22.0 x 60.0 x 6.1
Temperature	STD temp : 0°-70°C Wide temp : -40°-85°C	STD temp : 0°-70°C Wide temp : -40°-85°C	STD temp : 0°-70°C Wide temp : -40°-85°C	STD temp : 0°-70°C Wide temp : -40°-85°C
Order Info.	EGPL-G101-C1 EGPL-G101-W1 EGPL-G101-C2 (with bracket) EGPL-G101-W2 (with bracket)	EGPL-G201-C1 EGPL-G201-W1 EGPL-G201-C2 (with bracket) EGPL-G201-W2 (with bracket)	EGUL-G101-C1 EGUL-G101-W1 EGUL-G101-C2 (with bracket) EGUL-G101-W2 (with bracket)	EGUL-G201-C1 EGUL-G201-W1 EGUL-G201-C2 (with bracket) EGUL-G201-W2 (with bracket)

Innodisk Embedded Peripheral

Storage and memory solution is not the only thing that innodisk creates. Starting from 2014, we also provide a lot of embedded modules with industrial-grade standard to help solution providers and system integrators. Innodisk EP extends the I/O functionality with easy-to-use interface and standard form factors. You can find the best suited module for each project by below matrix.



F/F			Output								
			PCIe	SATA	PATA	USB	POE	VGA Display	LAN	CAN BUS	Serial 232/422..
mPCIe (mSATA)	Input	PCIe	EMPP-0201	EMPS-3401 EMPS-2201 EMPS-3201 EMPS-32R1	EMP4-1101	EMPU-3401 EMPU-3201		EMPV-1201 EMPV-1202	EMPL-G101 EMPL-G201		EMP2-X401 EMP2-X801 EMP2-X402 EMP2-X403 EMP2-X404
		SATA		EMSS-32R1							
		USB								EMUC-B201	EMU2-X1S1 EMU2-X1S2
PCIe Standard	Input	PCIe	ESXS-2301 ESPP-2401	ESXS-2301 ESPS-3401 ESPS-3201 ESPS-32R1			ESPL-G4P1				
		SATA		ESXS-2301							
		USB				ESXS-2301					
M.2 (NGFF)	Input	PCIe		EGPS-3401					EGPL-G101 EGPL-G201		
		SATA		EGSS-32R1							
		USB						EGUV-1101	EGUL-G101 EGUL-G201		
2.5"	Input	SATA		E2SS-32R1 E2SS-32R2							
		PATA		E24S-2101							
DDR3	Input	SATA		E3SS-32R1							