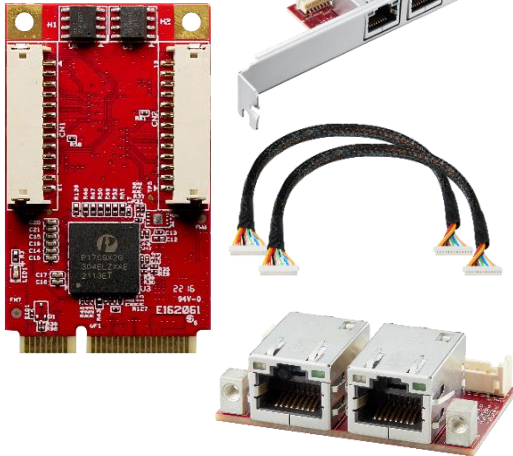


## EMPL-22S2

mPCIe to Dual Isolated 2.5GbE LAN Module

### HIGHLIGHT FEATURES

- Intel i226 controller
- 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
- Industrial temperature -40 °C to 85 °C
- Industrial design, manufactured in Innodisk Taiwan



### SPECIFICATIONS

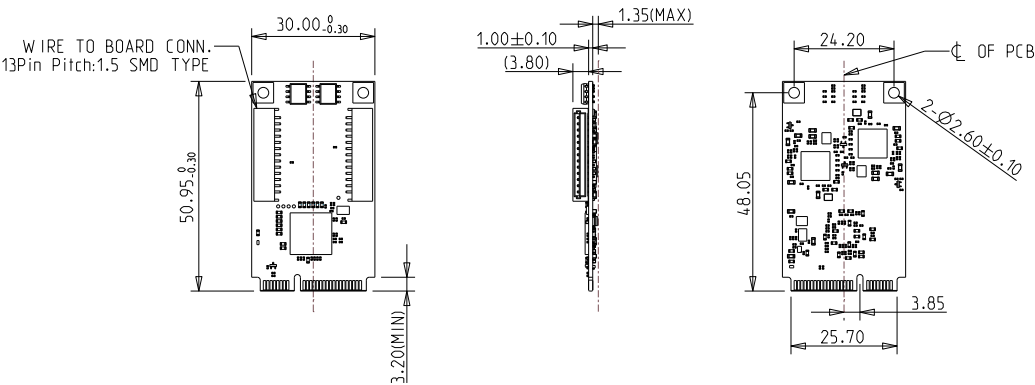
|                          |                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Name               | EMPL-22S2                                                                                                                                                                                                                                                                                                                                                           |
| Module Type              | mPCIe to Dual Isolated 2.5GbE LAN Module                                                                                                                                                                                                                                                                                                                            |
| Form Factor              | mPCIe                                                                                                                                                                                                                                                                                                                                                               |
| Function                 | LAN                                                                                                                                                                                                                                                                                                                                                                 |
| Input I/F                | PCI Express 2.1 x2                                                                                                                                                                                                                                                                                                                                                  |
| Output I/F               | 2.5GbE LAN                                                                                                                                                                                                                                                                                                                                                          |
| Output Port              | 2                                                                                                                                                                                                                                                                                                                                                                   |
| Output Connector         | RJ45                                                                                                                                                                                                                                                                                                                                                                |
| Max. Power Consumption   | 3.8W (3.3V, 1154mA)                                                                                                                                                                                                                                                                                                                                                 |
| Dimension (W x L x H/mm) | Main Board : 30 x 50.9 x 6.15<br>Daughter Board : 50 x 28 x 19.37                                                                                                                                                                                                                                                                                                   |
| Temperature              | Operation : S/T 0°C ~ 70°C ; W/T -40°C ~ 85°C (Ta)<br>Storage : -55°C ~ 95°C (Ta)                                                                                                                                                                                                                                                                                   |
| Vibration                | 5G@[7~2000Hz]                                                                                                                                                                                                                                                                                                                                                       |
| Shock                    | 50G@0.5ms                                                                                                                                                                                                                                                                                                                                                           |
| OS Support               | Windows : 10 (64bit), and above version<br>Linux (igc) : Kernel 5.x version                                                                                                                                                                                                                                                                                         |
| Warranty                 | 3 Years                                                                                                                                                                                                                                                                                                                                                             |
| Notes                    | <ul style="list-style-type: none"><li>• Please download driver from Intel official website.</li><li>• The speed might be <math>\leq 1.6</math> Gbits/sec when using dual LAN at the same time.</li><li>• Linux upstream kernel release - from 5.16.18.</li><li>• Not recommend used in VMware ESXi due to High Latency.</li><li>• Not support Intel vPro.</li></ul> |

ORDER INFO.

| P/N          | Description                                                                               |
|--------------|-------------------------------------------------------------------------------------------|
| EMPL-22S2-C1 | mPCIe to Dual Isolated 2.5GbE LAN Horizontal Module, Mounting Hole / Standard Temperature |
| EMPL-22S2-W1 | mPCIe to Dual Isolated 2.5GbE LAN Horizontal Module, Mounting Hole / Wide Temperature     |
| EMPL-22S2-C2 | mPCIe to Dual Isolated 2.5GbE LAN Horizontal Module, Bracket / Standard Temperature       |
| EMPL-22S2-W2 | mPCIe to Dual Isolated 2.5GbE LAN Horizontal Module, Bracket / Wide Temperature           |

MECHANICAL DRAWING

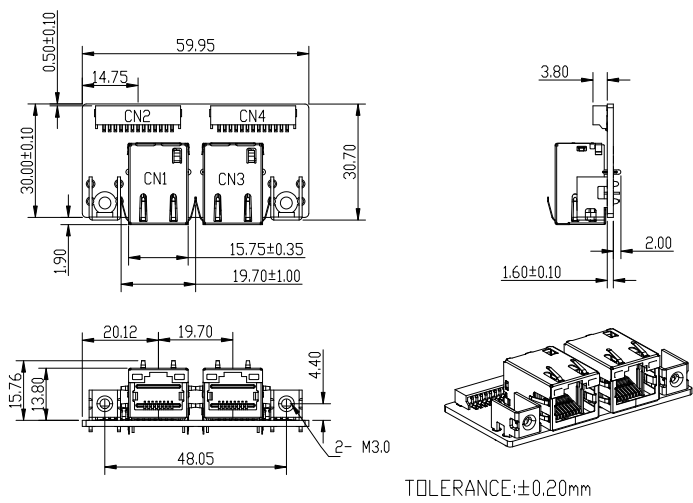
Main Board



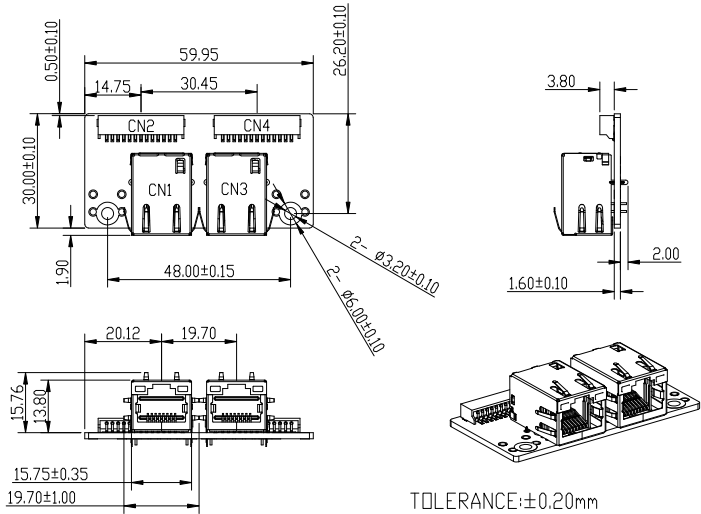
TOLERANCE:  $\pm$ 0.30mm  
UNIT: mm

Daughter Board

EMP-22S2-C(W)1



EMP-22S2-C(W)2



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