

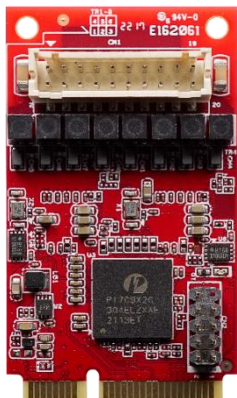


## EMPL-22N1

mPCIe to Dual 2.5GbE LAN Module

### HIGHLIGHT FEATURES

- Intel i226 controller
- Dual 2.5GbE LAN ports
- Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV
- Transformer on PCB for flexible cable design
- External LED indicator pin for speed 10 / 100 / 1000
- Optional Industrial Temperature (-40°C to 85°C) support



### SPECIFICATIONS

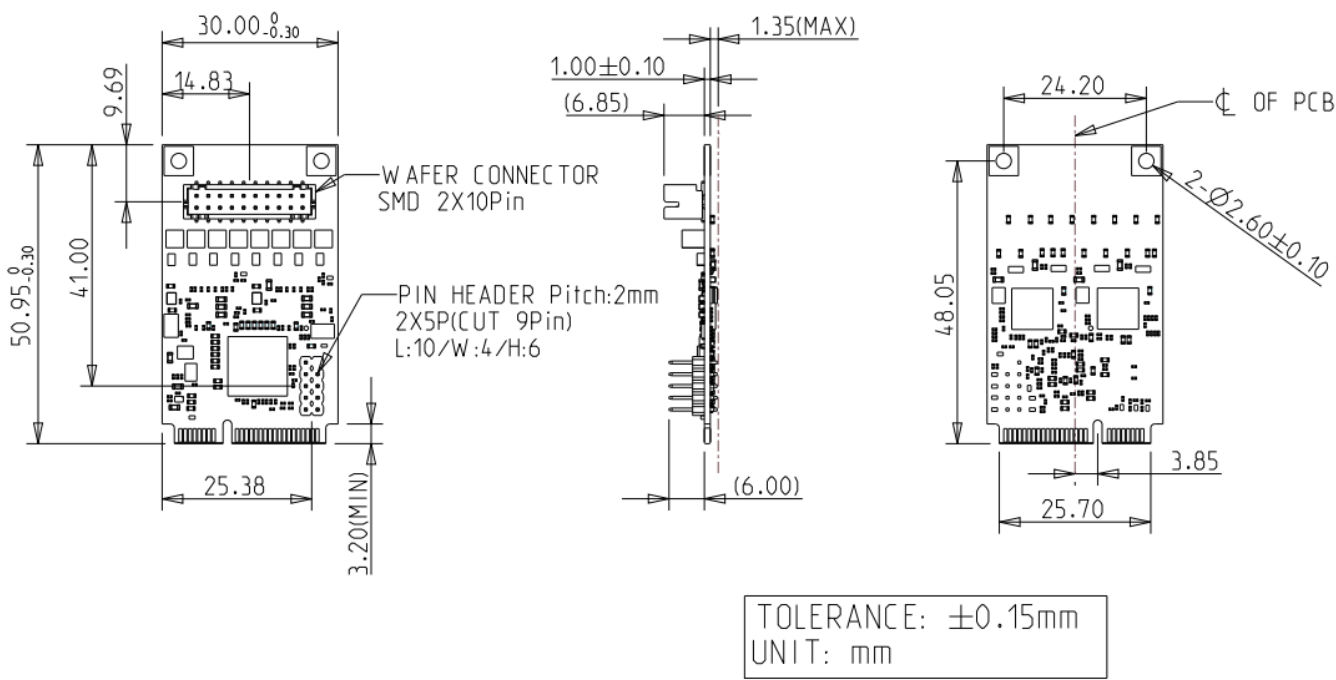
|                          |                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Name               | EMPL-22N1                                                                                                                                                                                                                                                                                                                                                                                         |
| Module Type              | mPCIe to Dual 2.5GbE LAN Module                                                                                                                                                                                                                                                                                                                                                                   |
| Form Factor              | mPCIe                                                                                                                                                                                                                                                                                                                                                                                             |
| Function                 | LAN                                                                                                                                                                                                                                                                                                                                                                                               |
| Input I/F                | PCI Express 2.1 x1                                                                                                                                                                                                                                                                                                                                                                                |
| Output I/F               | 2.5GbE LAN                                                                                                                                                                                                                                                                                                                                                                                        |
| Output Port              | 2                                                                                                                                                                                                                                                                                                                                                                                                 |
| Output Connector         | RJ45                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. Power Consumption   | 3.2043W (3.3V, 971mA)                                                                                                                                                                                                                                                                                                                                                                             |
| Dimension (W x L x H/mm) | 29.85 x 50.8 x 9.35                                                                                                                                                                                                                                                                                                                                                                               |
| 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 Kernel rebuild is needed (modify igc driver) if version &lt; 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-22N1-C1 | mPCIe to Dual 2.5GbE LAN Module / Standard Temperature |
| EMPL-22N1-W1 | mPCIe to Dual 2.5GbE LAN Module / Wide Temperature     |

MECHANICAL DRAWING

Main Board



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