

**M2EX4G3**

**User's Manual**

**Bear Technologies**  
**[www.beartech.com.tw](http://www.beartech.com.tw)**

## Section 1 : Introduction

### 1. Product Feature

M2EX4G3 can be use to test PCI Express M.2 X4 Slot  
Type 2280 Key M

M2EX4G3 can be use to test PCI Express U.2 X4 Slot

### 2. Accessories

M2EX4G3 test card \* 1



P.S. Can be used with 8639-M2M test U.2 function

## Section 2 : Common Program Syntax

2-1> Filename: PCI-XP.COM

```
PCI Express Test Ver 3.2 04/26/2016 Bear Technologies ( PCI-XP ? ..Help)
Port  PciIndex Bus ChipSet  Expected      Read      Card ID  Result
      01 80010000 001 M2EX4G3  (X 4/Gen3)  (X 4/Gen3)  (0)      Pass

          PASS

105> Ports (Exp./Pass)(01/01): Pass

05/12/2016 05:06:10
C:\PIC>
```

2-2> Syntax

```
PCI Express Test Ver 3.2 04/26/2016 Bear Technologies ( PCI-XP ? ..Help)

PCI-XP [T1..T16][N][K][L/K][+S][[-Width][[+Gen][P??X??][P??G?][Self]
      [-P??W][[-P??G][\N]
/K      : Any key to continue      +S      : Add Error Status Test
-Width: Skip Link Width Test      +Gen    : Add Link Speed Test
P??X??: Expected Which Port Link Width
P??G? : Expected Which Port Link Speed
-P??W  : Which Port To Skip Link Width Test
-P??G  : Which Port To Skip Link Speed Test
\N     : Skip Gate A20 Eenable Self : Self Link Width & Speed

PCI-XP      : Test 1 PCI-Express Slot
PCI-XP T2   : Test 2 PCI-Express Slot
PCI-XP -Width : Skip Link Width
PCI-XP +Gen  : Add Link Speed
PCI-XP P1X1 : Expected Port 1 Link Width = X1
PCI-XP P2X4 : Expected Port 2 Link Width = X4
PCI-XP P6X8 : Expected Port 6 Link Width = X8
PCI-XP P10X16 : Expected Port 10 Link Width = X16
PCI-XP +Gen P1G1: Expected Port 1 Link Speed = Gen1
PCI-XP +Gen -P2G: Skip Port 2 Link Speed

C:\PIC>
```

## Section 3 : Testing Principle

### A. Function:

1. PCI Express M.2 4X real test.
2. Support PCIe GEN3

### B. Compatibility:

1. PCI Express M.2 Type2280 Key M mother board

### C. Efficiency and Completeness:

1. Only requires one test program ( PCI-XP.COM ? Help Message )  
to complete the 1~16 PCI Express M.2 slots and the process only test  
1 second

### D. Operating Procedure:

1. Connect test card to PCI Express M.2 Type 2280 Key M Slot
2. Boot up the system to DOS platform
3. Execute **PCI-XP.COM**