IEi

PulM Series

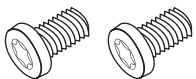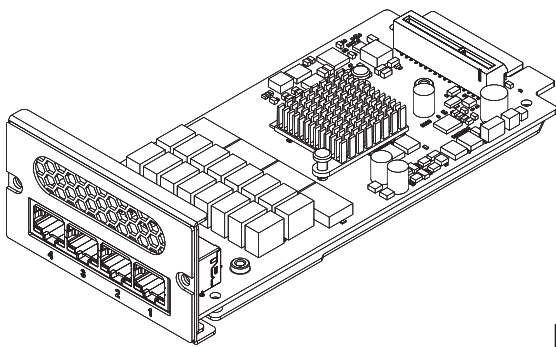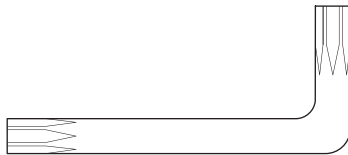## PulM-1G4T-I350-BP

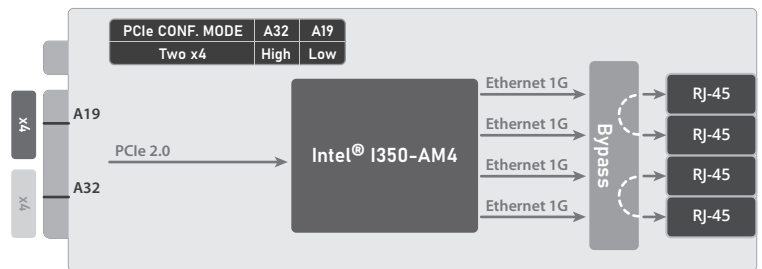*www.ieiworld.com*

Package Contents

PulM-1G4T-I350-BP

Torx Screws x 2

Torx Wrench x 1

PulM-1G4T-I211-BP Block Diagram

PCIe CONF. MODE	A32	A19
Two x4	High	Low

x4

A19

x4

A32

PCIe 2.0 → Intel® I350-AM4

Ethernet 1G → Bypass → RJ-45
Ethernet 1G → Bypass → RJ-45
Ethernet 1G → Bypass → RJ-45
Ethernet 1G → Bypass → RJ-45

LAN LED Status

LAN Port

Link LED — Speed LED
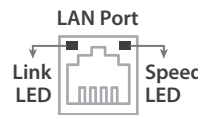
LED	State		Description
Link (Left)	Yellow		Active
Speed (Right)	Green		1 Gbps date rate
	Orange		100 Mbps data rate
Off (Left/Right)	Off		Bypass function

Hardware Installation

Slot A   Slot B

CONSOLE   USB   1 2 3 4 5 6 7 8   Puzzle ∞   iEi

CPU —— DMI GEN3 x4 —— PCH

One PCIe x8 or
Two PCIe x4

Four PCIe x2 or
Two PCIe x4

Slot A PCIe Configuration

x8	
x4	x4

Slot B PCIe Configuration

x2	x2	x2	x2
x4		x4	

A   A32   A19

B   A32   A19
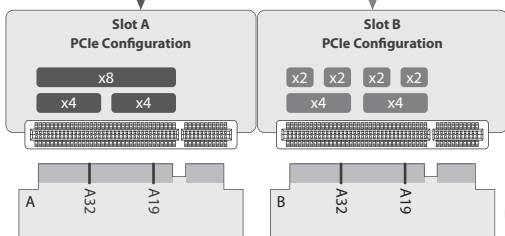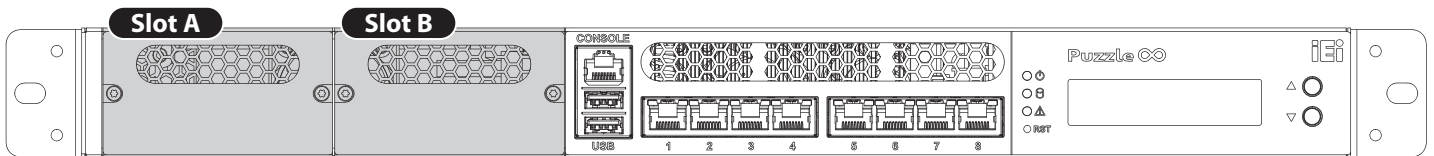
Install the PulM-1G4T-I350-BP networking module into the slot of the PUZZLE series. The Slot A supports 8 lanes from CPU (1 PCIe x8 or 2 PCIe x4); the Slot B supports 8 lanes from PCH (2 PCIe x4 or 4 PCIe x2). The PulM-1G4T-I350-BP is can installed into the slot A & slot B.

A19	A32	PCIe Config.	Slot
0	0	4x2	B
0	1	2x4	A & B
1	0	1x8	A

Networking Module Installation

Step 1

Use the Torx wrench to remove the two Torx screws. Remove the slot cover. Save the slot cover screws.

Step 2

Slide an IEI networking module into the slot until the module is seated in the slot correctly and securely.

Step 3

Install the previously-removed Torx screws to secure the module to the chassis.

Bypass Configuration in BIOS

Some PulM modules support bypass. To enable/disable bypass function, configure the BIOS menu of the PUZZLE series as described below.
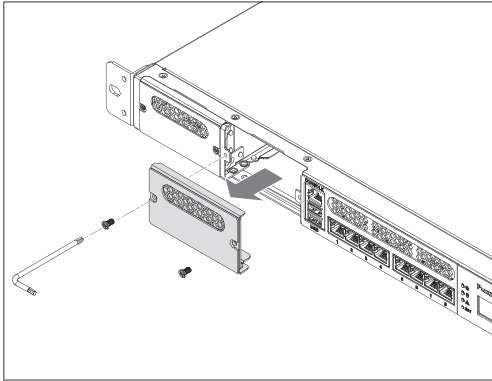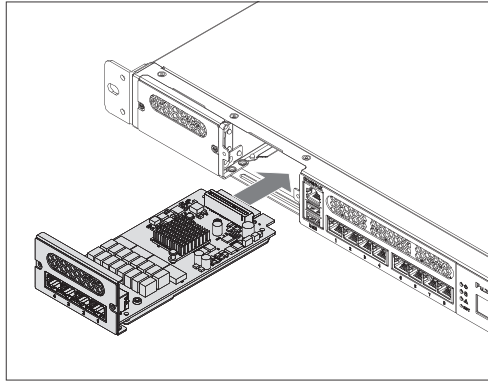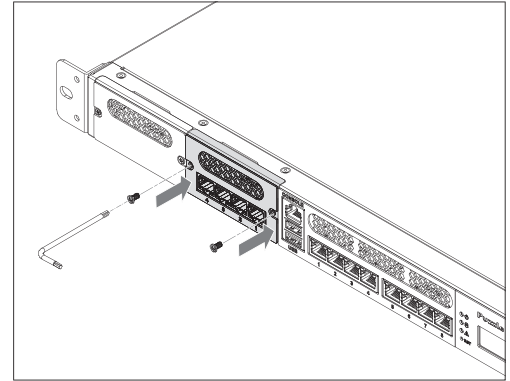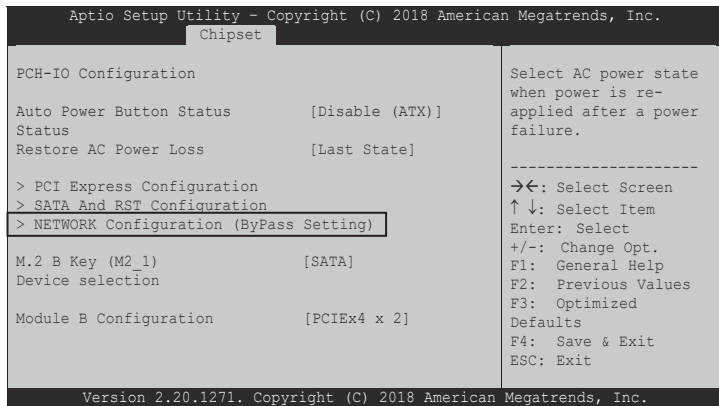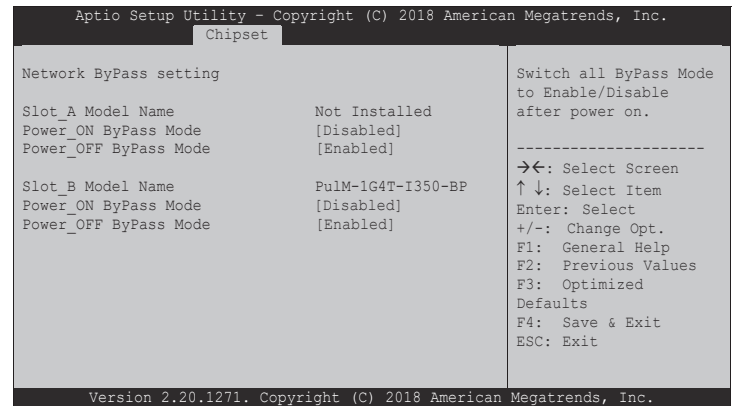
Step 1

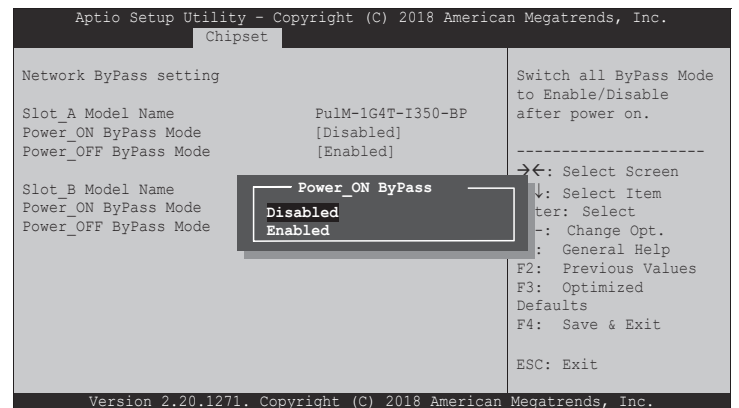Go to Chipset ➔ PCH - IO Configuration ➔ NETWORK Configuration (Bypass Setting)

```
          Aptio Setup Utility - Copyright (C) 2018 American Megatrends, Inc.
                    Chipset

 PCH-IO Configuration                                    Select AC power state
                                                         when power is re-
 Auto Power Button Status         [Disable (ATX)]        applied after a power
 Status                                                  failure.
 Restore AC Power Loss            [Last State]
                                                         --------------------
 > PCI Express Configuration                             →←: Select Screen
 > SATA And RST Configuration                            ↑↓: Select Item
 > NETWORK Configuration (ByPass Setting)                Enter: Select
                                                         +/-:  Change Opt.
 M.2 B Key (M2_1)                 [SATA]                  F1:   General Help
 Device selection                                        F2:   Previous Values
                                                         F3:   Optimized
 Module B Configuration           [PCIEx4 x 2]           Defaults
                                                         F4:   Save & Exit
                                                         ESC: Exit

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```

Step 2

The **Network ByPass Setting** menu appears. The model names of the PulM module installed in the PUZZLE series are shown.

```
          Aptio Setup Utility - Copyright (C) 2018 American Megatrends, Inc.
                    Chipset

 Network ByPass setting                                  Switch all ByPass Mode
                                                         to Enable/Disable
 Slot_A Model Name                Not Installed          after power on.
 Power_ON ByPass Mode             [Disabled]
 Power_OFF ByPass Mode            [Enabled]              --------------------
                                                         →←: Select Screen
 Slot_B Model Name                PulM-1G4T-I350-BP      ↑↓: Select Item
 Power_ON ByPass Mode             [Disabled]             Enter: Select
 Power_OFF ByPass Mode            [Enabled]              +/-:  Change Opt.
                                                         F1:   General Help
                                                         F2:   Previous Values
                                                         F3:   Optimized
                                                         Defaults
                                                         F4:   Save & Exit
                                                         ESC: Exit

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```

Step 3

Configure the Power_ON ByPass Mode and the Power_OFF ByPass Mode BIOS options to enable/disable bypass function of the installed PulM modules.

PUZZLE BIOS Setting	Power_ON ByPass Mode		Power_OFF ByPass Mode	
	Disabled	Enabled	Disabled	Enabled
PulM Bypass Function	Disable bypass when system on	Enable bypass when system on	Disable bypass when system off	Enable bypass when system off

```
          Aptio Setup Utility - Copyright (C) 2018 American Megatrends, Inc.
                    Chipset

 Network ByPass setting                                  Switch all ByPass Mode
                                                         to Enable/Disable
 Slot_A Model Name                PulM-1G4T-I350-BP      after power on.
 Power_ON ByPass Mode             [Disabled]
 Power_OFF ByPass Mode            [Enabled]              --------------------
                                                         →←: Select Screen
 Slot_B Model Name          ┌─ Power_ON ByPass ─┐        ↑↓: Select Item
 Power_ON ByPass Mode       │ Disabled          │        ter: Select
 Power_OFF ByPass Mode      │ Enabled           │        -:  Change Opt.
                            └───────────────────┘        :   General Help
                                                         F2:   Previous Values
                                                         F3:   Optimized
                                                         Defaults
                                                         F4:   Save & Exit

                                                         ESC: Exit

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```

Step 4

Press **F4** to save and exit the BIOS menu. The PUZZLE series will reboot with the new settings.