How To- Enable SATA RAID function of ICH8 DO in CMOS setting

For Advantech SBC and motherboard with ICH8 DO chipset, in order to use ICH8 DO integrated SATA RAID function, BIOS SATA RAID function has to be enabled first. The procedure to enable RAID function in BIOS is the following:

• In BIOS, enter Integrated Peripherals submenu



• In Integrated Peripherals menu, enter OnChip IDE Device submenu

Phoenix - AwardBIOS CMOS Setup Utilit Integrated Peripherals		
 OnChip IDE Device Onboard Device SuperIO Device USB Device Setting 	[Press Enter] [Press Enter] [Press Enter] [Press Enter]	Men

• In OnChip IDE Device menu, go down to SATA Mode, and choose RAID

Phoenix - AwardBIOS CMOS Setup Utility OnChip IDE Device			
IDE HDD Block Mode	22833	[Enabled] [Enabled]	I
IDE Prinary Master PIO IDE Prinary Slave PIO	[Auto] [Auto]	Henu Levi	
IDE Primary Maste IDE Primary Slave On-Chin Secondary		Mode	
IDE Secondary Mas IDE Secondary Sla	TDE Retd	[1]	
IDE Secondary Mas IDE Secondary Sla SATA Mode LEGACY Mode Suppo	AHCI		

• After choosing RAID, the menu will show as the following photo:

Phoenix -	AwardBIOS CMOS Setup Utility OnChip IDE Device
IDE HDD Block Mode	[Enabled]
IDE DMA transfer access	[Enabled]
IBE Primary Master PIO	[Auto] Hem
IDE Primary Slave PIO	[Auto]
IBE Primary Master UDMA	[Auto]
IDE Primary Slave UDMA	[Auto]
On-Chip Secondary PCI IDE	[Enabled]
IDE Secondary Master P10	[Auto]
IDE Secondary Slave PIO	[Auto]
IDE Secondary Master UDMA	[Auto]
IDE Secondary Slave UDMA	[Auto]
SATA Mode	(RAID)
× LEGACY Mode Support	Disabled

• At this stage, user can save the change and exit BIOS. SATA RAID mode is now being enabled in CMOS setting.