

Release No: 08P010013

Product Model	POP-70
Description	7" Open frame Panel PC, Ethernet Operator Panel
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> System : POP-70 <input checked="" type="checkbox"/> CPU Board : TF-GENE-8310 (A1.11) <input checked="" type="checkbox"/> BIOS : POP-70 BIOS Rev1.0(7/30/2008) <input checked="" type="checkbox"/> M/B Chipset : <input checked="" type="checkbox"/> North Bridge : Intel i855GM/GME <input checked="" type="checkbox"/> South Bridge : Intel ICH4 <input checked="" type="checkbox"/> VGA Chipset : Intel 82852GM/82855GME <input checked="" type="checkbox"/> Audio Chipset : Realtek AC'97 <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82562, 10/100Base-TX <input checked="" type="checkbox"/> I/O Chipset : ITE IT8712 <input checked="" type="checkbox"/> Remark : POP-70 QE NPDP P5 External Report
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

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Issue date

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Manager

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Test Engineer

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There are 3 test results in this document; they are described as follows:

Pass: Function worked perfectly

Fail: Function failed and must be modified in the next version

N/A: Outside of specification or no test equipment

Platform Information:

Item	Device Information
System	POP-70
CPU Board	TF-GENE-8310 (A1.11)
BIOS / Version	POP-70 BIOS Rev1.0(7/30/2008)
CPU Type	Intel Celeron M 600 MHz
Memory Type	DDR 333(PC2700) 512MB
HDD	FUJITSU MHW2040AT 40GB
CRT	ViewSonicE653
Operating System	Windows 2000
	Windows XP Professional English Version Service Pack 3
Power Supply	DC-in :SINPRO MPU100-105 Input:100-240V~47-63Hz 1.25~0.5A Output: 12V, 8.33A MAX

Test Result for Certification

1. OSD Control Function Test

OSD Control Function	Result			Note
	Pass	Fail	N/A	
Power Button	X			
Brightness			X	
Contrast			X	
Speaker Volume Up			X	
Speaker Volume Down			X	

2. I/O Peripheral Function Test

I/O Function	Result			Note
	Pass	Fail	N/A	
Floppy Connector / Driver A:			X	
Primary IDE Master	X			
Primary IDE Slave			X	
Secondary IDE Master			X	
Secondary IDE Slave			X	
Third IDE Master			X	
Third IDE Slave			X	
RAID 0 Function Test			X	
RAID 1 Function Test			X	
SATA1 / Serial ATA Connector 1			X	
SATA2 / Serial ATA Connector 2			X	
SATA3 / Serial ATA Connector 3			X	
SATA4 / Serial ATA Connector 4			X	
Compact Flash – Type I			X	
Compact Flash – Type II			X	
DOC (Disk On Chip)			X	
DOM (Disk On Module) – 40 Pin			X	
DOM (Disk On Module) – 44 Pin			X	
COM 1-232	X			
COM 2-232	X			
COM 2-422	X			
COM 2-485	X			
COM 2-Ring /+5V /+12V			X	
COM 3-232			X	
COM 4-232			X	
COM 5-232			X	
COM 6-232			X	

PS/2 Mouse & Keyboard (Internal)			X	
PS/2 Mouse & Keyboard (External)	X			
Audio Connector	X			
Audio 5.1 Channel / S/P DIF			X	
LPT 1			X	
LPT 2			X	
SIR / 115.2 Kbps			X	
FIR / 4M bps			X	
USB 1/2 Ports	X			
USB 3/4 Ports			X	
USB 5/6 Ports			X	
USB 7/8 Ports			X	
USB 2.0 1/2 Ports	X			
USB 2.0 3/4 Ports			X	
USB 2.0 5/6 Ports			X	
USB 2.0 7/8 Ports			X	
DVI Function			X	
DIO Connector			X	
Card Bus			X	
PC/104			X	
PC/104-Plus			X	
PCI-104			X	
CD-In Connector			X	
TFT TTL LCD			X	
TFT LVDS LCD			X	
TV-out / S Terminal			X	
TV-out / AV Terminal			X	
Touch Screen – 8 Wire			X	
Touch Screen – 4 Wire	X			
DIMM Slots			X	
Watchdog IRQ n			X	
Watchdog Software Control	X			
CPU FAN Connector			X	
System FAN Connector			X	
Front Panel	Result			Notes
	Pass	Fail	N/A	
Power On Button	X			
IDE LED			X	
External Buzzer			X	
On Board Buzzer			X	
Power LED			X	
Reset Switch			X	
Keyboard Lock			X	
Jumpers Function	Result			Notes
	Pass	Fail	N/A	
ATX simulates AT			X	
Audio Out Selection			X	
LCD Voltage Selection			X	

COM2-Ring/5V/12V Selection				X	
COM2 RS-232/422/485 Selection		X			
Clear CMOS				X	
Touch Screen Operating Mode				X	
Clock Shift of TFT LCD				X	
DC Connector & Function		Result			Notes
		Pass	Fail	N/A	
ATX Power Connector				X	
ATX Power 12V Connector				X	
AT Power Connector (P8 & P9)				X	
Big 4P Power Connector				X	
Mini 4P Power Connector				X	
External Power Connector (-12/-5V)				X	
Option ATX Power Connector				X	
LAN Connector & Function		Result			Notes
		Pass	Fail	N/A	
LAN Link / Speed LED	LAN1	X			
	LAN2			X	
LAN Active LED	LAN1	X			
	LAN2			X	
LAN 10/100 Ethernet		X			
LAN 1G Ethernet				X	

3. Timer Accuracy Test

System Clock & RTC Clock Test					
Test Method	Margin for error	Result			
		Pass	Fail	N/A	
RTC Clock in Power On Mode	±3 second during 24 hours	X			
RTC Clock in Power Off Mode	±3 second during 24 hours	X			
Watchdog Timer Test		Result			
		Pass	Fail	N/A	
Time-out Interval	10 sec	X			
	60 sec	X			
	255 sec	X			

4. Network HUB / LAN Connection Test

Location	LED Type	Result		
		Pass	Fail	N/A
LAN1 LED	Active LED	X		
	Link LED	X		
	Speed LED	X		

Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
		D-Link DGS-1008T	100M	1GBps	100	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		

5. Hardware Compatibility

CPU Compatible Test					
CPU Type	FSB	Prime95 Version	Result		
			Pass	Fail	N/A
Intel Celeron M 600 MHz	400MHz	V2414	X		
Audio Basic Function Test					
			Pass	Fail	N/A
System Sound			X		
CD_In					X
CD_In Sound Recorder					X
Play Sound Recorder					X
Line Out			X		
Line In					X
Line In Sound Record					X
MIC Speaker	Dynamic				X
	Condenser				X
MIC Sound Recorder	Dynamic				X
	Condenser				X
Audio 5.1 Channel with S/P DIF Function Test					
			Pass	Fail	N/A
2-channel mode for stereo speaker output			X		
4-channel mode for 4 speaker output					X
6-channel mode for 5.1 speaker output					X
S/P DIF function Test	Input				X
	Output				X
On Board TV Function Test					
			Pass	Fail	N/A
NTSC		AV Terminal			X

	PAL				X
	NTSC	S Terminal			X
	PAL				X
On Board LCD Function Test					
TFT LCD	Type	Voltage	Result		
			Pass	Fail	N/A
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)	3.3V			X
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)	3.3V			X
	AU B104SN02 / 10.4" / 800*600 / 18bit (4:3)	3.3V			X
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	3.3V			X
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	3.3V			X
	AU M170EG01 / 17" / 1280*1024 / 48bit (4:3)	5V			X
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X
	AUO T260XW02 / 26" / 1366x768 / 24bit				X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit				X
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)	5V			X
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)	3.3/5V			X
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit (4:3)	3.3V			X
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)	3.3V			X
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)	5V			X
PCI Slot Function (PCI Adapter Card) Test					
Model	Type	Result			
		Pass	Fail	N/A	
CHANTECH NVIDIA GeForce4 MX440-8X	VGA Card			X	
SC3000 CMI8738/C3DX	Sound Card			X	
Takram DC-395U V1.02	SCSI Card			X	
ADAPTEC Ultra160 SCSI ASC-29160	SCSI Card			X	
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	Capture Card			X	
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	LAN Card			X	
3Com 3C905C-TXM ETHERLINK 10/100 PCI	LAN Card			X	
D-Link DWL-520+ Wireless LAN	LAN Card			X	
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID Card			X	
LEMEL MD V1456VQH-P2 PCI MODEM Card	Modem Card			X	
D-Link DU-520 USB 2.0	USB Hub Card			X	
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HDD Seagate ST3120026AS 120GB	SATA Card			X	

ISA Slot Function Test			Result		
			Pass	Fail	N/A
Creative CT4170 Sound Blaster Sound Card					X
Adaptec AHA-1510/20/22B SCSI Card					X
PCI-Express Function Test			Result		
Model			Pass	Fail	N/A
SUNIX SATA1414 VER 1.1 PCI-Express x1 SATA Card					X
SksKonnnect SK-9E21D 10/100/1000 Base-T Adapter PCI-Express x1 LAN Card					X
Adaptec AAR-1430SA SATAII HostRAID Controllers PCI-Express x4 RAID Card					X
ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card					X
XWinFast PX6200 TC TDH PCI-Express x16 VGA Card					X
USB Function Test					
USB Basic Function Test			Result		
			Pass	Fail	N/A
USB Controller			X		
USB 2.0 Controller			X		
USB Keyboard Support			X		
USB Mouse Support			X		
USB 1.1 Compatible Test			Result		
			Pass	Fail	N/A
USB 1.1 Compatible Test			X		
USB 2.0 Compatible Test			Result		
			Pass	Fail	N/A
USB 2.0 Compatible Test			X		
USB 2.0 Function Test			Result		
			Pass	Fail	N/A
Install Windows XP Professional from HighSpeed Device: USB2.0 DRW-1604P-D/WHT/G/ASUS			X		
Digital I/O Connector Test			Result		
			Pass	Fail	N/A
Input Address: 801H					X
Output Address:801H					X
VCC: (5V)					X
DIO-1 Function Test					X
DIO-2 Function Test					X
Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules					
Interface	Model	Type	Result		
			Pass	Fail	N/A
PC/104	AAEON PCM-5600	Modem Module			X
	AAEON PCM-3115B	PCMCIA Module			X
PC/104+	AAEON PCM-3430	SCSI Module			X

PCI-104	AAEON PCM-FA00	Mini-PCI Converter			X
	AAEON PCM-3794	SCSI Module			X
	AAEON PCM-3730	Intel 82559 LAN Module			X
On-Board SCSI Function Test					
Model		Interface	Result		
			Pass	Fail	N/A
RICOH MP7060S		SCSI-CDROM 24X			X
Fujitsu MCB3064SS		SCSI-MO Device			X
Seagate 32155W		SCSI-HDD 2.15GB			X
IBM DNES-309170		SCSI-HDD 9GB			X
Seagate ST39205LW/P		9GB / Ultra160 / LVD			X
On-Board RAID Function Test					
Model		Interface	Result		
			Pass	Fail	N/A
Set SATA HDDs as RAID 0		SATA			X
Set SATA HDDs as RAID 1		SATA			X
Set SATA HDDs as RAID 10		SATA			X
Set SATA HDDs as RAID 5		SATA			X
COM Function Test			Result		
			Pass	Fail	N/A
COM Port Burn In Test			X		
Disk On Module [DOM] Compatibility Test					
Model		Interface	Result		
			Pass	Fail	N/A
Transcend / TS512MDOM40V / 512MB		IDE 40 Pin			X
Transcend / TS512MDOM44V / 512MB		IDE 44 Pin			X
Mini PCI Card Compatibility Test					
Model		Interface	Result		
			Pass	Fail	N/A
GM-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)		LAN			X
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)		LAN			X
PER-C20S SATA RAID MiniPCI Card (Silicon Image Sil3512ECTU128 QF7227.1-1)		SATA			X
COM/LPT Ports & RS-232/422/485 Function Test			Result		
			Pass	Fail	N/A
RS-422 for COM2			X		
RS-485 for COM2			X		
COM1			X		
COM2			X		

COM3			X
COM4			X
COM5			X
COM6			X
LPT1			X
LPT2			X
Card Bus(PCMCIA) Compatibility Function Test			
Model	Result		
	Pass	Fail	N/A
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)			X
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)			X
Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD)			X
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X
Modular System Industrial Workstation Function Test	Result		
	Pass	Fail	N/A
AC / DC power outlet / inlet	X		
Power On / Off	X		
Digital brightness controller			X
OSD Function Test			X
Mechanism construction check	Result		
	Pass	Fail	N/A
Panel construction check	X		
Case construction check	X		
PCMICA construction check			X
I/O Port connector check	X		
USB connector check	X		
Component check	X		

6. O.S. Compatibility Test

Installation Operation System Compatibility Test	Result		
	Pass	Fail	N/A
Windows XP Professional English Version Service Pack 3	X		
Windows 2000 Professional English Version	X		

7. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test			X
Standard CMOS Setup Test	X		

Boot Sequence Test	X		
Power Management Test			
APM Power Management Test	X		
ACPI Power Management Test			X
Power On Function Test			X
Wake Up Event Test			X
Power On after Power Failure Test			X
CMOS Backup / Clear CMOS Test			X
Boot ROM Test (RPL/PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD / TV Function Test	X		
TV Standard Function Test			X
Init Display First Function Test			X
On-Chip Serial ATA Function Test			X
SATA Mode-IDE/RAID Function Test			X
Swap Floppy Drive & Boot up Floppy Seek Function Test			X
USB Onboard Device Function Test	X		
COM Address / IRQ Test	X		
LPT Address / IRQ Test			X
BIOS AWDFLASH Program Test	X		