

ACT-412A

12.1" EM/Mifare RFID Panel PC

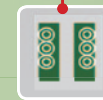
CMOS Camera with Low Light Function

Features

- Intel® Atom™ processor N270 1.6 GHz CPU for ultra low voltage fan-less support
- Dual 125KHz-EM/13.56MHz-Mifare RFID reading capacity
- 12.1" TFT touch color screen, fully interface display, all operation can be done on the touch screen directly
- 2 DI and 2 DO provide device control applications
- 802.11 b/g/n wireless connection
- Integrated Bluetooth V2.0 connection
- Advanced in-wall mounting mechanism design
- Optional high speed 3.75G broadband connectivity
- IP64 front panel is watertight and dustproof, the perfect solution for harsh environments
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



Digital Input & Output



Relay Board



Lighting



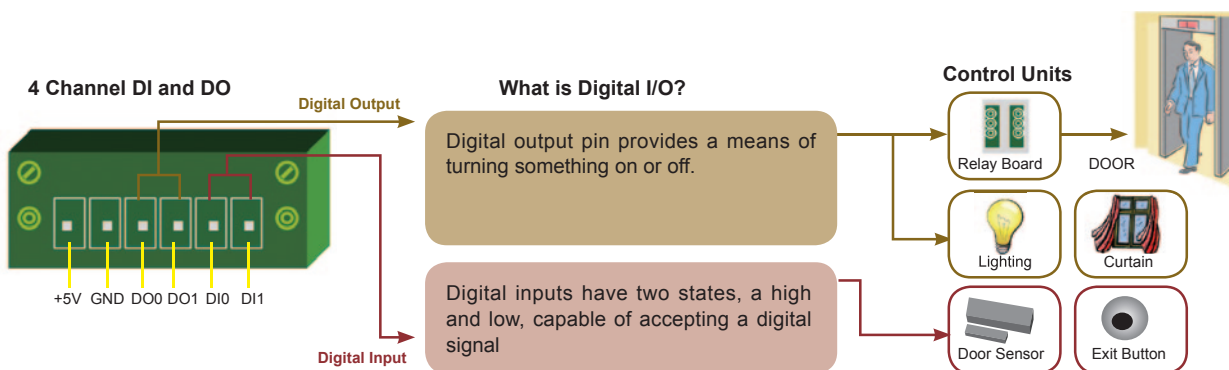
Motion/Smoke Detector



Alarm

1. Digital I/O Controls

The ACT-412A features a 4 channel DI/DO (2 inputs plus 2 outputs) with screw terminals for quick interfacing. Digital input/output (DIO) devices enable direct control of equipments, and are used in a wide variety of applications such as factory automation, machine control, and home automation. You can control motors, heaters, valves, lamps and so on under the ACT-412A DIO interface.



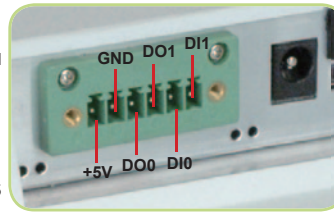
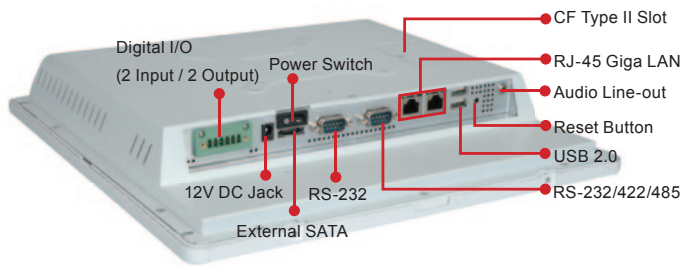
2. Mobile/Backup 3.75G Wireless Connection (For Option)

HSUPA (High speed uplink packet access) is a 3G mobile telephony protocol with up-link speeds up to 5.76Mbit/s. The improvement helps VoIP efficiency and multimedia file uploading, reducing mobile connection time.

GSM Generation	Uplink/Downlink Speed
2G-GSM	9.6Kbps-14.4Kbps
2.5G-GPRS	9.6Kbs-115Kbps
2.75G-EDGE	384Kbps
3G-WCDMA	64Kbps/2Mbps (Indoor) 384Kbps (Outdoor)
3.5G-HSDPA	384Kbps/14.4Mbps (Max)
3.75G-HSUPA	5.76Mbps/14.4Mbps



I/O Interface



ACT-412A Specifications

Model		ACT-412A-N270		
Display	LCD Size	12.1"		
	Max Resolution	1024 x 768		
	Brightness (cd/m ²)	500		
	Contrast Ratio	700:1		
	LCD Color	262K		
	Pixel Pitch (mm)	0.3075mm(H) x 0.3075mm(V)		
	Viewing Angle (H-V)	160° / 160°		
Motherboard	Backlight MTBF (hrs)	50000		
	SBC Model	AFLMB-945GSE-N270-R10		
	CPU	Intel® Atom™ process N270 1.6GHz CPU		
	Chipset	Intel® 945GSE + ICH7M		
I/O Ports	RAM	Supports one 400MHz or 533MHz DDRII SO-DIMM (2GB Max.)		
		1 x RS-232 COM Port		
		1 x RS-232/422/485 COM port		
		2 x Giga LAN		
		3 x USB 2.0 (2 in the rar, 1 in front of the panel)		
		1 x Power Switch		
		1 x Reset Button		
		1 x 12V DC Jack		
		1 x Audio Line-out		
		1 x External SATA		
1 x 6 Pin Terminal Block for Digital I/O				
RFID Module	Working Frequency	EM 125KHz and MIFARE 13.56MHz		
	Reading Range	1~3 cm (Under 13.56MHz)/ 10 cm (Under 125KHz)		
Drive Bay	SSD	CF TypeII		
	HDD	1x 2.5" SATA HDD or optional HSUPA module		
	HSUPA (Optional)	1 x HSUPA mobile module supports GSM 850, EGSM 900, DCS 1800 & 1900		
Other Features	Watchdog Timer	Software programmable supports 1~255 sec. System reset		
	Audio	AMP 3W + 3W (internal speaker)		
	Wireless	1 x Wireless Lan 802.11 b/g/n Module (internal PCIe mini card interface)		
	Bluetooth	1 x Bluetooth Function (internal USB interface, Bluetooth V2.0)		
	Webcam and Microphone	1 x Webcam with low light function & Mic Function		
	LED Indicator	1 x Power On/Off LED on Front Panel		
	Physical	Construction Front Panel	ABS + PC Plastic front frame	
		Mounting	In-Wall, Wall, Stand and Arm VESA 75mm x 75mm / 100mm x 100mm	
		Front Panel Color	Blue and White	
		Net Weight	2.8 kg	
Dimensions (WxHxD) (mm)		312 x 314 x 52		
Environment	Operation Temperature (°C)	-10°C ~50°C		
	Storage Temperature (°C)	-25°C ~ 65°C		
	EMC	CE / FCC / CCC		
	Safety	CB		
Touch Screen	Resistive Type 5-Wire (Touch controller IC is on board) P/N: 63000-FSP0481AD101C-RS			
Power Adapter	50W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC			
Power Requirement	12VDC			
Power Consumption	39W			

Ordering Information

Model	Description
ACT-412A-N270/R/1G-R21	12.1" 500cd/m ² XGA fanless panel PC with Intel® N270 1.6GHz, 802.11b/g/n wireless module, touch screen, MIFARE & ME RFID module, 1GB DDR2 533, R21, RoHS

Packing List

Item	P/N	Q'ty	Specifications
Touch Pen	43125-0002C0-RS	1	
Mini Jumper	33100-000033-RS	10	
External SATA Cable	32000-094100-RS	1	
Power Adapter	50W Power Adapter	1	90VAC~264VAC, 50/60Hz
Power Cord	32000-000002-RS	1	European Power Cord, 1830mm
Screw Kit		1	
Utility CD-ROM		1	

Options

Item	P/N	
ARM	ARM-11-RS / ARM-31-RS	
STAND	STAND-C19 / STAND-A19	
OS	Win CE6.0	ACTCF-412-N270-CE060-R21
	LINUX	ACTCF-412-N270-LNX-R21
	Win XPE	ACTCF-412-N270-XPE-R21
In-Wall Cage	ACTIWC-412-R10	
Wall Mounting	AFLWK-12	