



PGS-4020

< Conforme al Comma 6a PLUS >
Comma 6a PLUS System with Intel® Cedar Trail™ Platform



PGS-4020 is an industrial gaming system compliant with the latest Italian Comma 6a PLUS requirements. Built with Intel® latest ATOM™ Cedar Trail™ platform, it can provide dual core 1.86GHz high performance. It supports features such

as, "Battery voltage monitoring & warning" and "Ultra fast 32bit, 66MHz PCI-Express operated NVRAM". PGS-4020 is an ideal integrated platform for AWP market.

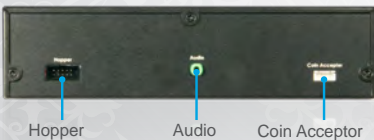
FEATURES

- Compliant with latest Comma 6a PLUS
- AAMS smart card & PDA interface
- 5+2 Years lifespan
- Fanless system
- Dual independent display by VGA/DVI-D
- Ultra fast 32bit, 66MHz PCI-Express operated SRAM

FRONT I/O



REAR I/O



ORDERING GUIDE

AS5-3320

(R).PGS-4020. Gaming Logic Box.
Comma 6a PLUS System with
Intel® Cedar Trail™ Platform



GENERAL

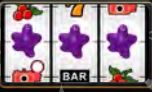
Processor	Intel® ATOM™ Processor D2550 (1.86GHz)
Chipset	Intel® NM10 PCH
Memory	Single channel up to 4GB DDR3 1066/800 SO-DIMM socket
Storage Devices	- 2x SATA 3.0 Gb/s; SATA DOM supported - 1x Compact Flash - 64KB of user EEPROM
Expansion Interface	N/A

I/O INTERFACE

Audio	- High Definition Audio connector - 6W + 6W Class A-B stereo Amplifiers via JAMMA connector
Ethernet	Realtek® Gigabit Ethernet
Serial Port	- 1x RS232 pin header - 1x AAMS port - 2x ccTalk for Coin Acceptor/Hopper
USB	- 2x USB 2.0 on rear I/O - 4x USB 2.0 pin headers

GRAPHIC

Graphic Controller	Intel® GMA3600 integrated GPU
Graphic Acceleration	- 2D: Directdraw, EXA and XRandR - 3D: DirectX 9, OpenGL 3.0
Video Playback	- H.264, MPEG-2, VC-1 hardware codecs - DXVA, VA API media acceleration
Display Interface	- VGA: up to 2048x1536 (QXGA) - DVI-D: up to 1920x1200 (WUXGA)

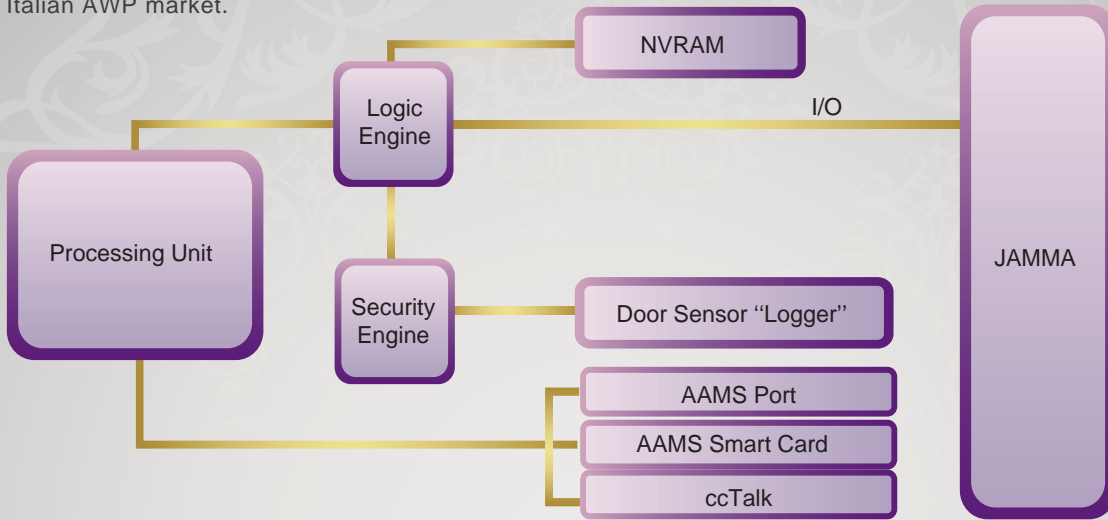


Comma 6a PLUS

Comma 6a PLUS is coming, it features in

- 28-way JAMMA connector
- Door, Service, Refill, Button, Lamp
- 12V/24V cctalk for coin acceptor and hopper
- Multiple door (e.g. chassis, cover) sensors with time stamped logs

Built with Logic Engine and Security Engine, Portwell 4020 support latest Comma 6a PLUS regulation for Italian AWP market.



GAMING FUNCTION

Comma 6a PLUS	<ul style="list-style-type: none"> - AAMS smart card - AAMS PDA interface - 6 door sensor inputs <ul style="list-style-type: none"> - 4 at JAMMA finger - 2 at internal connector - Operates with and without AC power - Logs of Date/Time stamped of 44 events - Battery voltage monitoring & warning - 12V/24V ccTalk coin acceptor and hopper connectors
JAMMA Interface	<ul style="list-style-type: none"> - 28-way connector - 5V, 12V, 24V power inputs - 1x ccTalk - Door, Service, Refill, Button, Lamp - 6W + 6W Class A-B stereo Amplifier
NVRAM	<ul style="list-style-type: none"> - Ultra fast 32bit, 66MHz PCI-Express operation - 2MB of battery backedup SRAM - Dual independent physical banks - Battery voltage monitoring & warning
Digital Input	<ul style="list-style-type: none"> - 17x Photo-coupler Protected Input - Individual interrupt, triggered by rising/falling edges or level changed - Programmable de-bounce time
Digital Output	11x open drain (150mA ~ 500mA); 50V

SECURITY

Integrity	<ul style="list-style-type: none"> - Comma 6a PLUS mechanical design - Intrusion detection during AC OFF - Programmable de-bounce - Optical isolator - Strict revision control - Non-Volatile RAM - Triple data redundancy - Write protect - Battery low warning - Royal Integrity
Property	<ul style="list-style-type: none"> - Secured RTC - Royal Property
Connectivity	<ul style="list-style-type: none"> - Royal Connectivity - Watchdog Timer - Over temperature warning

MECHANICAL & ENVIRONMENT

Dimension	230mm(L) x 223mm(W) x 55mm(H); 9.06"(L) x 8.78"(W) x 2.17"(H)
Power Requirement	<ul style="list-style-type: none"> - Typical: +24V, +12V, +5V - Support AT mode from JAMMA finger
Environment	<ul style="list-style-type: none"> - Operation Temperature: 0°C to 40 °C - Storage Temperature: -20°C to 85 °C - Relative Humidity: 10% to 95%, non-condensing