



ADVANTECH

**5 Ways
Smart Parking
matters to
Retail and Hospitality**

Enabling an Intelligent Planet

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Smart Parking matters to



Supermarkets



Stadiums



Hotels / SPA Resorts



Shopping Centers



Restaurants



Amusement / Entertainment

Pain points



Queues



Parking lots finding



↓ ENTRY

Car finding

× NO ENTRY

× NO ENTRY



Massive Influxes



Parking Violations and Misuses



Security

Why Retail and Hospitality need Smart Parking?

- ❑ **Speeding up entry, payment and exit procedures**
- ❑ **Easy parking lot finding**
- ❑ **Drivers frustration reduction**
- ❑ **Congestion reduction**
- ❑ **Parking and Customers behaviours analysis**
- ❑ **Loyalty rewarding**
- ❑ **Misuses reduction**
- ❑ **Security Improvement**

5 Ways Smart Parking drives Retail and Hospitality business

**Check-in &
Check.out**

**Electric-Vehicles
Charging Stations**

**Parking Lot
Guidance &
Car Finding**

Video-Surveillance

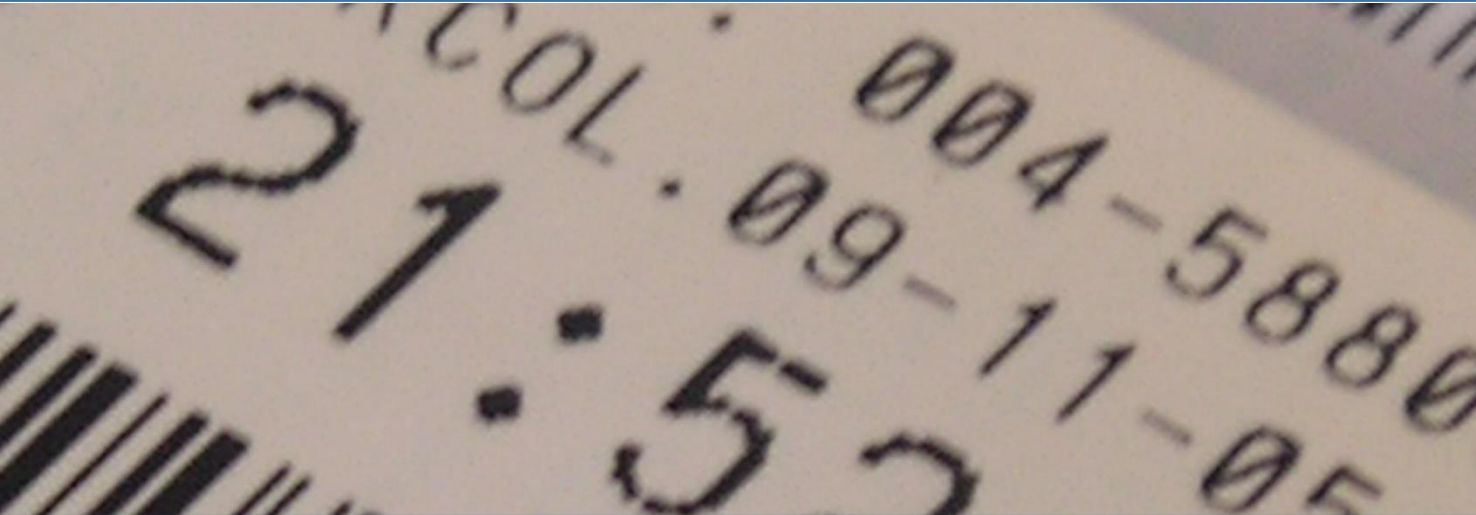
Plate recognition

**Smart
Parking
Solutions**

Enabling an Intelligent Planet

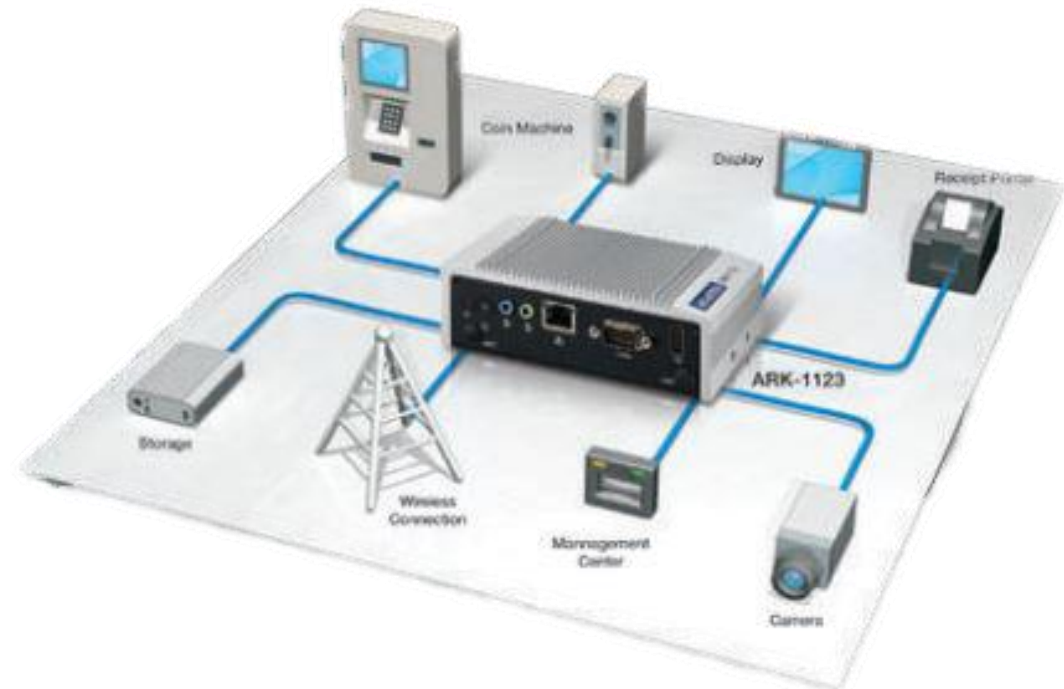
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1. Check-in & Check-out



Solution: ARK-1123C

- Rich I/O connections in both serial and USB ports (2 x COM + 3 x USB)**
- VGA output to support a kiosk display that shows parking info**
- Wide temperature support of -30 ~ 70°C**
- Metal chassis with special anti-corrosion treatment**
- Dual storage support : 2.5" drive bay and/or half size mSATA**



2. Electric Vehicles Charging Stations



Fast-charging stations can have either single or multiple ports. Their chargers are so powerful that a single 15 to 30 minute charge can support over 100 hours of driving and the transient electric current during a charge is huge. So the computing platforms that support the systems must be accurate and robust

That is why Advantech is important partner in fast-charging stations projects, as it is able to provide all-in-one solutions for the computing platforms needed in such applications, including its ultra-rugged, fanless, embedded box PC, the ARK-2120

ARK-2120

- ❑ **Ultra-rugged**
- ❑ **Wide temperature range**
- ❑ **Rich I/O options**
- ❑ **Low power consumption**
- ❑ **Remote maintenance**



3. Parking Lot Guidance & Car Finding



ARK-2120L

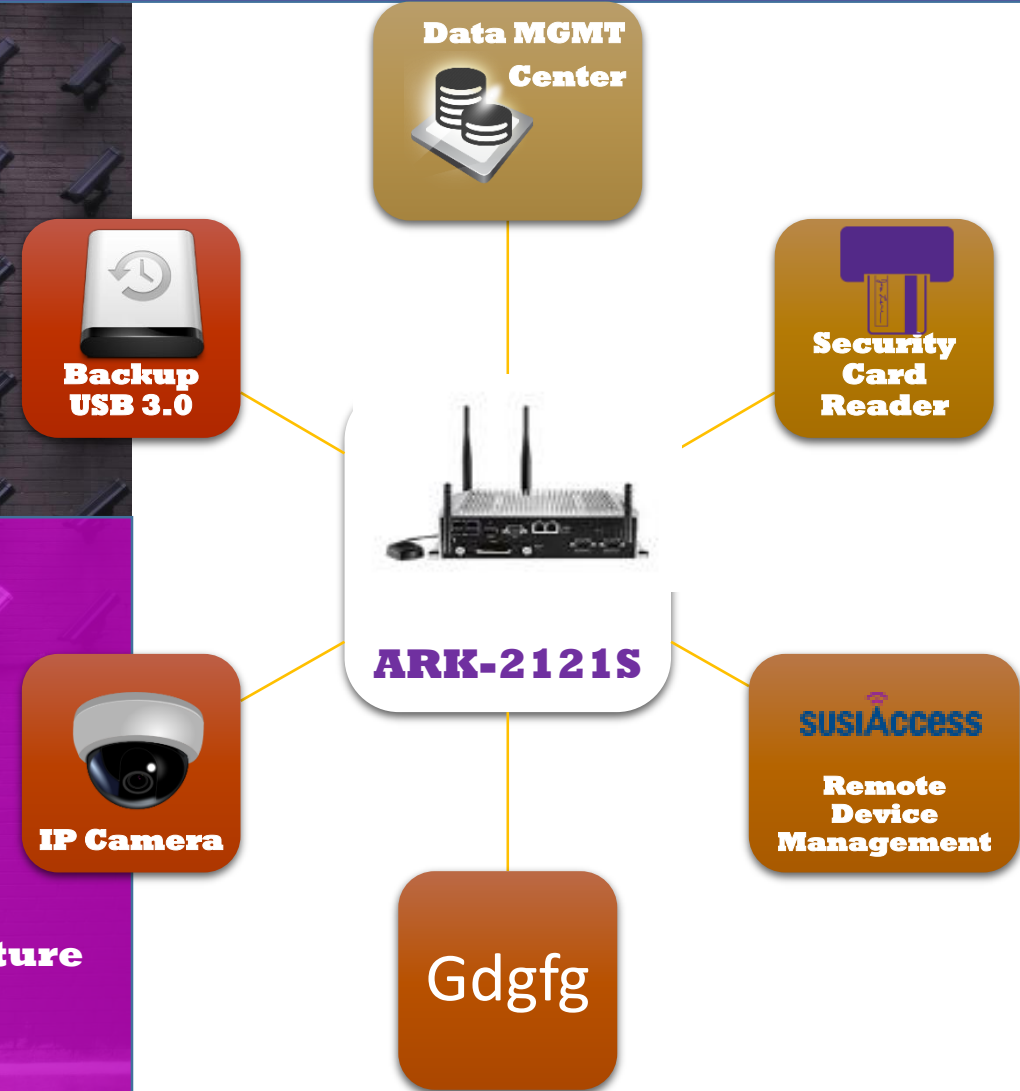
- ❑ Intel® Atom™ Dual Core N2600 1.6 GHz/D2550 1.86 GHz, DDR3 memory supports up to 4 GB
- ❑ VGA and HDMI dual independent display, supports DirectX 9
- ❑ Mini PCIe expansion with SIM holder for communication module, i.e. HSDPA, WLAN
- ❑ Up to 2 Intel GbE, 6 x USB 2.0 and 4 x COMs ports
- ❑ External CFast socket and 1 x 2.5" SATA HDD Bay
- ❑ Lockable DC jack design
- ❑ Supports iManager, SUSIAccess and Embedded Software APIs

4. Video-Surveillance



Solution: ARK-2121S

- ❑ Ultra-wide temperature: -30 ~ 60 °C
- ❑ Easy video backup through a hot-swappable drive bay
- ❑ Free SDK/API for camera health management and device control
- ❑ Rich I/O: COM / Digital IO / USB / HDMI / LAN ports
- ❑ 4 PoE ports simplify camera installation and reduce downtime
- ❑ Up to 1280 x 720 @ 60fps live view/playback for real-time video capture
- ❑ SUSIAccess software built-in for centralized remote management



5. Plate recognition



ARK-1123H Embedded IoT Gateway

- ❑ Intel® Celeron™ J1900 Quad Core 2.0 GHz SoC
- ❑ 1 x 2.5" SATA HDD/SSD Bay
- ❑ 2 x GbE for Multiple Internet Transmission
- ❑ 2 x Independent HDMI
- ❑ 1 x RS-232/422/485 (BIOS selection)
- ❑ 1 x Full-Size MiniPCIe (ex. WLAN or WWAN module)
- ❑ 1 x Half Size MiniPCIe (ex. mSATA)
- ❑ Optional VESA / DIN Rail / Wall Mounting kits
- ❑ Threaded DC jack design
- ❑ Supports SUSIAccess and Embedded Software APIs

- ✓ **Reduce time to park, CO emissions and energy costs**
- ✓ **Increase vehicle rotation**
- ✓ **Mobile / online payment**
- ✓ **Customers behaviours data collection**
- ✓ **Loyalty rewards**

Why Advantech?



30+ Years of experience in Embedded Platforms



Technology You Need



Partnership with Global Industry Leaders



Get Started Quickly

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Catalog >**

Featured Smart Parking Fanless Embedded Box PC

Product

Description

NEW

ARK-1123L

Intel® Atom E3825 SoC with Dual COM and GPIO Palm-Size Fanless Box PC

NEW

ARK-1123C

Intel® Atom E3825 SoC with Dual GbE and Dual COM Fanless Box PC

NEW

ARK-1123H

Intel® Celeron Quad Core J1900 SoC with Dual HDMI and Dual GbE Fanless Box PC

ARK-2120F

Intel® Atom™ Dual Core D2550 with 3 GbE, 6 COM & Wide Range Power Fanless Box PC

ARK-2120L

Intel® Atom™ Dual Core N2600/D2550 with Multiple I/Os Fanless Box PC

NEW

ARK-2121V

In-Vehicle NVR w/4 PoE Ports Intel® Atom E3825 / Atom E3845 SoC Fanless Box PC


SUSIAccess

Acronis


McAfee®
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Next Step: Contact your local Consultant

ADVANTECH AE - Greece

info@advantech.gr

+30 - 210 - 96 35 100