

Arestech Company Profile & 2019 Q2 Product Roadmap

Arestech
YOUR BEST PARTNER FOR EMBEDDED APPLICATIONS

About Arestech

Arestech, founded in 2011, employs a highly talented R&D, Sales and Manufacture team with over a decade of Industrial PC experience & expertise for embedded, automation, self-service and Food & Beverage Industries.

Your Best Partner for Embedded Applications



Highly Talented
Embedded R&D Team



5-Year Product
Life Cycle Plan



Product Longevity



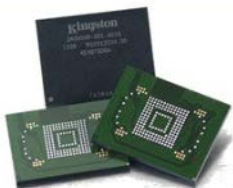
Creating Added
Value for Partners

JetOne Group



Jet One
Apple Ting / G.M
www.jetone.com.tw

**Key Component
Solution Provider**



Arestech
Richard Hung / G.M
www.arestech.com.tw

**IPC & Embedded
System Solution
Provider**



Nayisys
J.Y Chen / G.M
www.navisys.com.tw

**GPS & 3G/LTE
Solution Provider**



WisDat
**Osmond Chang /
G.M.**

**Wearable Device
Solution Provider**



A Full Range of Intelligent Embedded Systems

Multi-touch
Panel PC

Industrial
Multi-touch
Display

Embedded
Box PC

Stainless
Steel
Solution

Arestech Product Offerings



PPC-100 / N / J Series



TPM-3200/ 3500
Series



BPC-3000 / 5000 /
7000 Series



PPC-S / PPC- Z Series
TPM-33xx/36xx Series

Embedded System Solution Provider

Embedded System Solution Provider

Arestech

Mass Production Lines



TS16949



ISO9001



ISO13485

Factory Space

- 886 square meters

Production Line

- 4 Flexible Assembly Lines

Monthly Capacity

- System 1,000~1,500 units

Tasks

- Material storage/ Order kitting
- Box Build/System Assembly
- Shipping

Arestech Bespoke Service

- Various resolutions LCD panel options
- Resistive or P-CAP touch module
- Touch firmware tuning for operating with glove or in humid & greasy environments
- 4:3/16:9 aspect ratio
- High Brightness
- Anti-glare/Anti-reflection
- Sunlight readable optical bonding
- IP54~IP66/69K water/dust proof rating
- IK vandal proof protection
- 304/316 stainless steel chassis & enclosure with brushed or shinny polished finish
- SECC/aluminum alloy/304&316 stainless steel enclosure designing & manufacturing
- Brushed (grinded surface, Highly Polished/Glossy or Matte Black Finish
- I/O customization
- Stainless steel pipe/tube for panel PC & touch terminal
- Stainless steel work station cabinet designing & manufacturing



Stainless Steel Bespoke Solutions



Solo



For Cabinet





Application Field

Food Processing



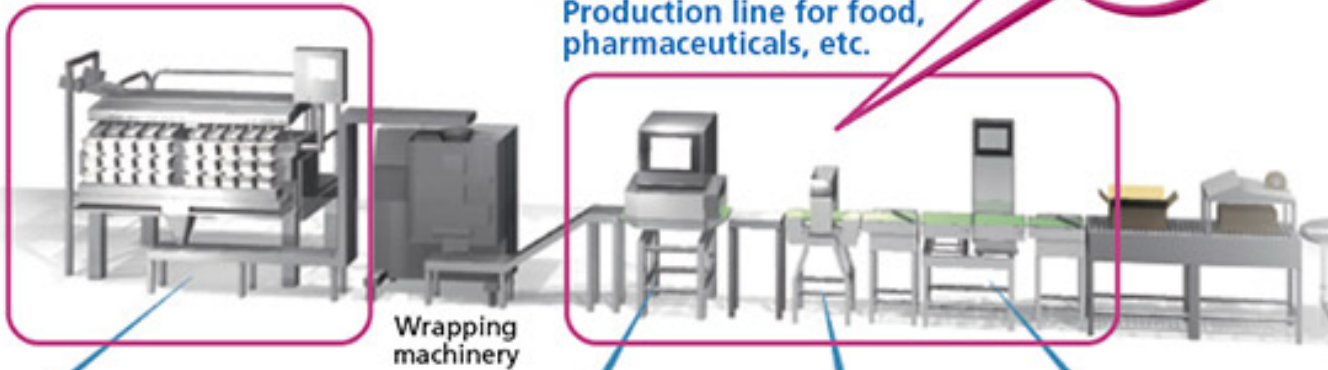
Processed food, etc.

Example



Detecting bone fragment in the processed chicken meat.

Production line for food, pharmaceuticals, etc.



Wrapping machinery

Secure & Safety to consumer

Automatic Combination Weigher

Subdivides the materials into a fixed quantity

X-ray Inspection System

Detects contaminants, shape testing, etc.

Metal Detector

Detects metallic contaminants

Checkweighers

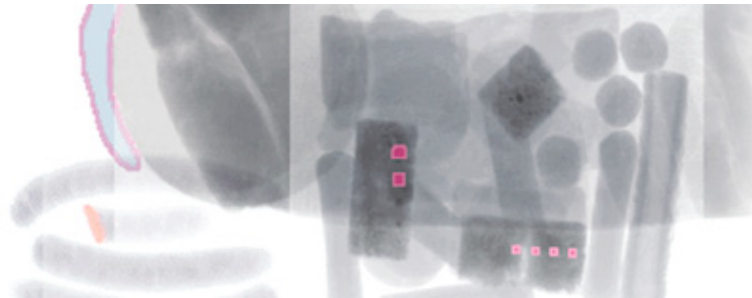
Checks quality and quantity and missing material

Comprehensive Production Management System

Integrated control of the overall operating status of the production line



X-Ray Food Inspection systems



X-ray Inspection System

The most extensive range of X-ray inspection machines



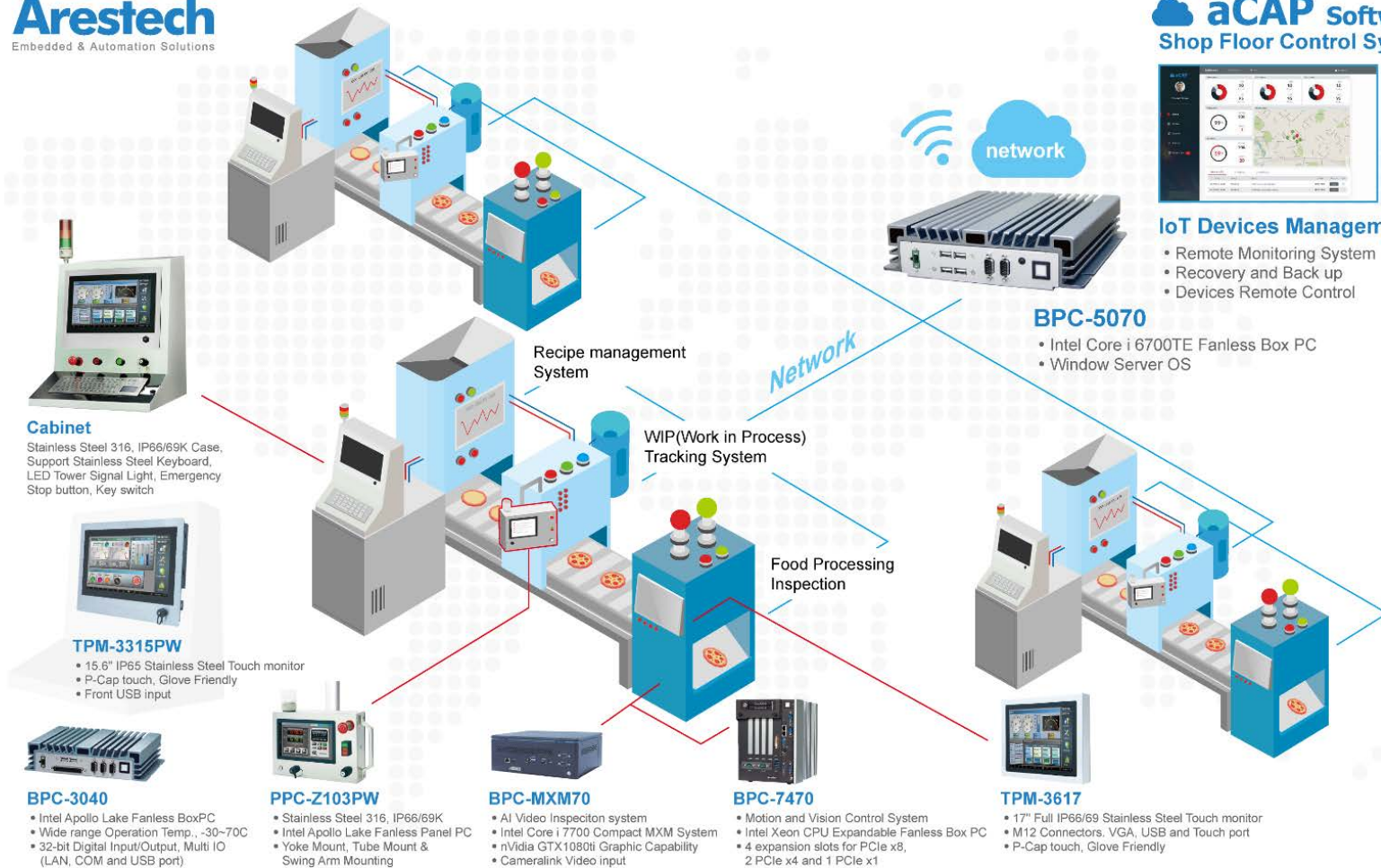
Weighing & Labeling



Food Processing Industry

Arestech
Embedded & Automation Solutions

aCAP Software
Shop Floor Control System



Cabinet

Stainless Steel 316, IP66/69K Case, Support Stainless Steel Keyboard, LED Tower Signal Light, Emergency Stop button, Key switch

TPM-3315PW

- 15.6" IP65 Stainless Steel Touch monitor
- P-Cap touch, Glove Friendly
- Front USB input

BPC-3040

- Intel Apollo Lake Fanless BoxPC
- Wide range Operation Temp., -30~70C
- 32-bit Digital Input/Output, Multi IO (LAN, COM and USB port)

PPC-Z103PW

- Stainless Steel 316, IP66/69K
- Intel Apollo Lake Fanless Panel PC
- Yoke Mount, Tube Mount & Swing Arm Mounting

BPC-MXM70

- AI Video Inspection system
- Intel Core i 7700 Compact MXM System
- nVidia GTX1080ti Graphic Capability
- Cameralink Video input

BPC-7470

- Motion and Vision Control System
- Intel Xeon CPU Expandable Fanless Box PC
- 4 expansion slots for PCIe x8, 2 PCIe x4 and 1 PCIe x1

TPM-3617

- 17" Full IP66/69 Stainless Steel Touch monitor
- M12 Connectors, VGA, USB and Touch port
- P-Cap touch, Glove Friendly



IoT Devices Management

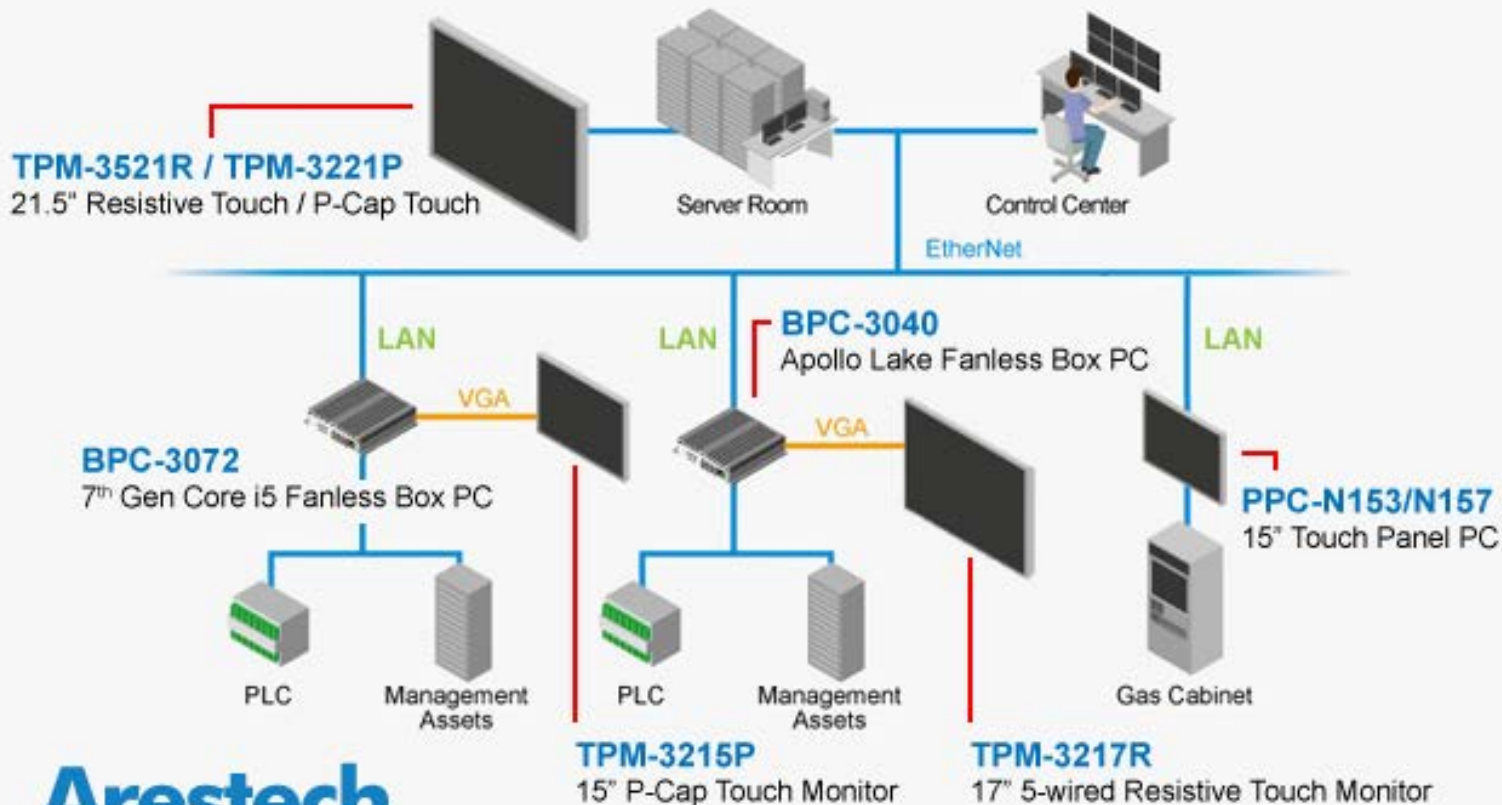
- Remote Monitoring System
- Recovery and Back up
- Devices Remote Control

BPC-5070

- Intel Core i 6700TE Fanless Box PC
- Window Server OS

Machine Automation

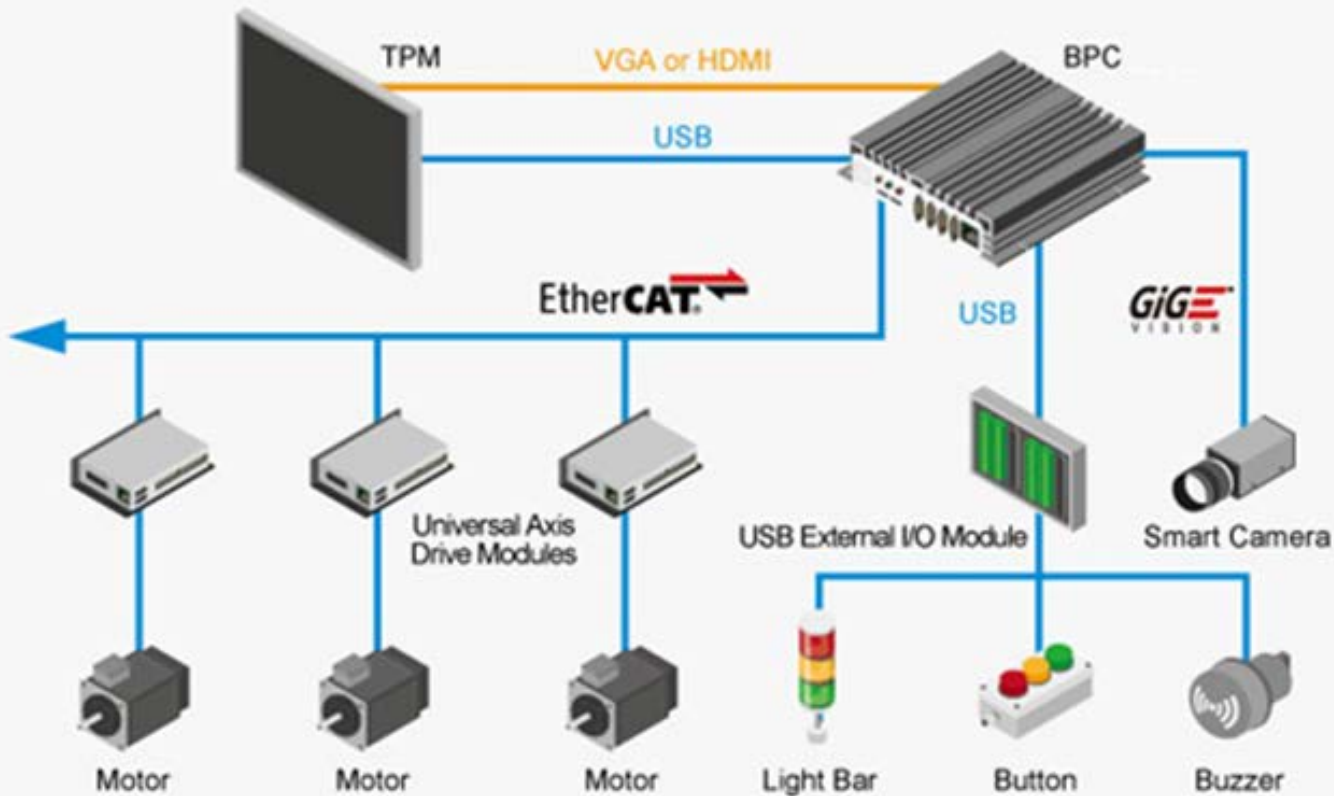
Remote Monitoring & Control Solutions



PPC-N157
i5-7200U
Touch Panel PC

Motion Control and AOI Inspection

Distributed Motion Control Solution



TPM-3521R
21.5" FHD
Touch Monitor



BPC-3072
i5-7200U
Fanless Box PC

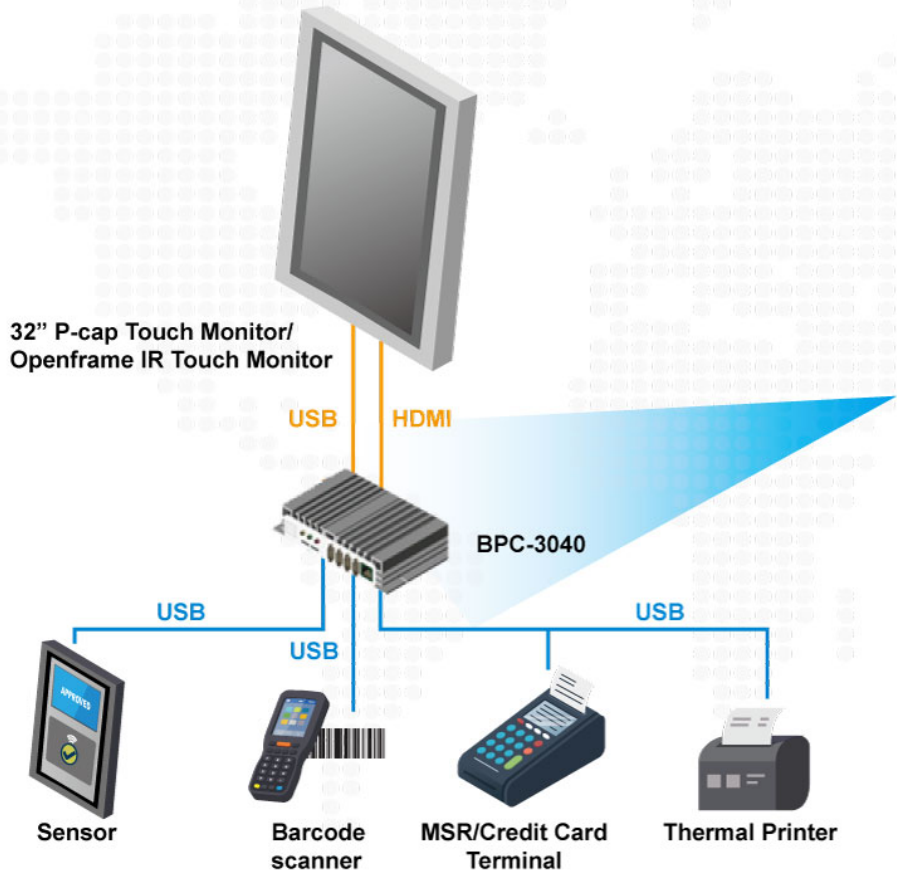
Arestech
Embedded & Automation Solutions

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Self-Service Ordering Machine

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Embedded & Automation Solutions

Self-service Ordering machine



32" FHD Multi-Touch Monitor

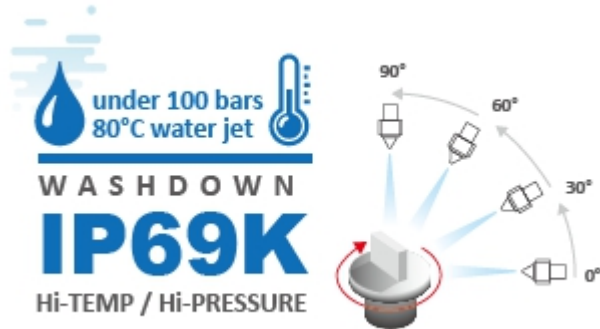


BPC-3040
Intel N4200
Fanless Box PC



Multi-touch Panel PC

Multi-touch Panel PC-Z Series



Arestech
Embedded & Automation Solutions

under 100 bars 80°C water jet

Powered by Intel® Core™ i5-6200U/
Intel® Celeron® 3955U

True flat design,
with 7H anti-scratch glass

Fully IP66/69K sealed design
with IP68 rated M12
water-proof connectors.

Full SUS 316 stainless
steel enclosure

17" SXGA P-CAP
multi-touch Panel PC

The image shows a multi-touch panel PC with a stainless steel enclosure, being washed down with a water jet. The panel is tilted at an angle, and the water jet is directed at it from the side. The panel is labeled with various specifications and features.

Panel PC product lines



- PPC-ZXXX: IP66/69K Fully Sealed SUS 316 Stainless Steel panel PC
- PPC-SXXX: Front IP65 SUS 316 Stainless Steel Bezel Panel PC
- PPC-SXXXPF: 4-sides IP65 SUS 316Stainless Steel Full Frame Panel PC
- PPC-NXXX: Front IP65 aluminum alloy bezel Panel PC
- PPC-1XXX: Front IP54 SECC panel PC

Panel PC –Z series

- IP66/IP69K fully sealed Dust/Water-proof
- SUS 316 Stainless Steel with Brushed Finish
- IP67 M12 Connectors
- True Flat Design
- Support VESA /Yoke Mount
- Angled surfaces prevent water from accumulating after system cleaning
- AGRO valve to reduce water condensing inside the system
- Touch ON/OFF button for easy cleaning



Panel PC –Z series IP 66/69K Product Roadmap

MP
 New
 Planned

21" ~ 43"

10.1" ~ 17"

PPC-Z433XW

- Full System IP66/69K
- Intel® Pentium N4200
- No Touch Function
- 43", 1920 x 1080, 450 nits
- 2 GLAN, 2 COM, 4 USB
- DC 9~36V
- 0~60°C

2019 Q2

PPC-Z213PW

- Full System IP66/69K
- Intel® Pentium N4200
- Projected Capacitive Touch
- 21.5", 1920 x 1080, 250 nits
- 2 GLAN, 2 COM, 4 USB
- DC 9~36V
- 0~60°C

2019 Q2

PPC-Z217PW

- Full System IP66/69K
- Intel® Core i5-7200U
- Projected Capacitive Touch
- 21.5", 1920 x 1080, 250 nits
- 2 GLAN, 2 COM, 4 USB
- DC 9~36V
- 0~60°C

2019 Q2

PPC-Z177P

- Full system IP66/69K
- Intel® i5-6200U/Celeron3955U
- Projected Capacitive Touch
- 17", 1280 x 1024, 350nits
- M12 Connector, 2 GLAN, 4 USB, 2 COM
- DC 12~28V
- -20~60°C

MP

PPC-Z103PW

- Full System IP66/69K
- Intel® Pentium N4200
- Projected Capacitive Touch
- 10.1", 1024 x 600, 450 nits
- 2 GLAN, 4 USB, 2 COM
- DC 9~36V
- -20~60°C

MP

PPC-Z153PW

- Full System IP66/69K
- Intel® Pentium N4200
- Projected Capacitive Touch
- 15.6", 1920 x 1080, 450 nits
- 2 GLAN, 4 USB, 2 COM
- DC 9~36V
- -20~60°C

MP

PPC-Z157PW

- Full System IP66/69K
- Intel® Core i5-7200U
- Projected Capacitive Touch
- 15.6", 1920 x 1080, 450 nits
- 2 GLAN, 4 USB, 2 COM
- DC 9~36V
- -20~60°C

MP

PPC-Z217PW Spec.

21.5" Full stainless steel IP69K/66 PCT Touch Monitor

- Full System Stainless Steel **316**, IP66/69K Protection
- 21.5" LCD Industrial Touch Monitor, Resolution: 1920 x 1080, Brightness: 250 nits
- **True flat and Slim bezel , Projected Capacitive Touch**
- **Intel Core i (Skylake-U) i5-7200U/i3-7100U**
- **Projected Capacitive Touch**
- Display output:
 - **M12**, 1 VGA
- I/O interface:
 - **M12**, 2 Water proof connector GigaLAN
 - **M12**, 2 COM ports (1 RS-232, 1 RS-232/422/485)
 - **M12**, 2 USB 3.0 + 2 USB 2.0
- WiFi support, 802.11 b/g/n/ac + BT 4.2
- Touch on/off Hot key
- 9~36V DC Input
- Operation Temperature: -20~60°C
- VESA Mount/ Yoke Mount

PPC-Z213PW Spec.

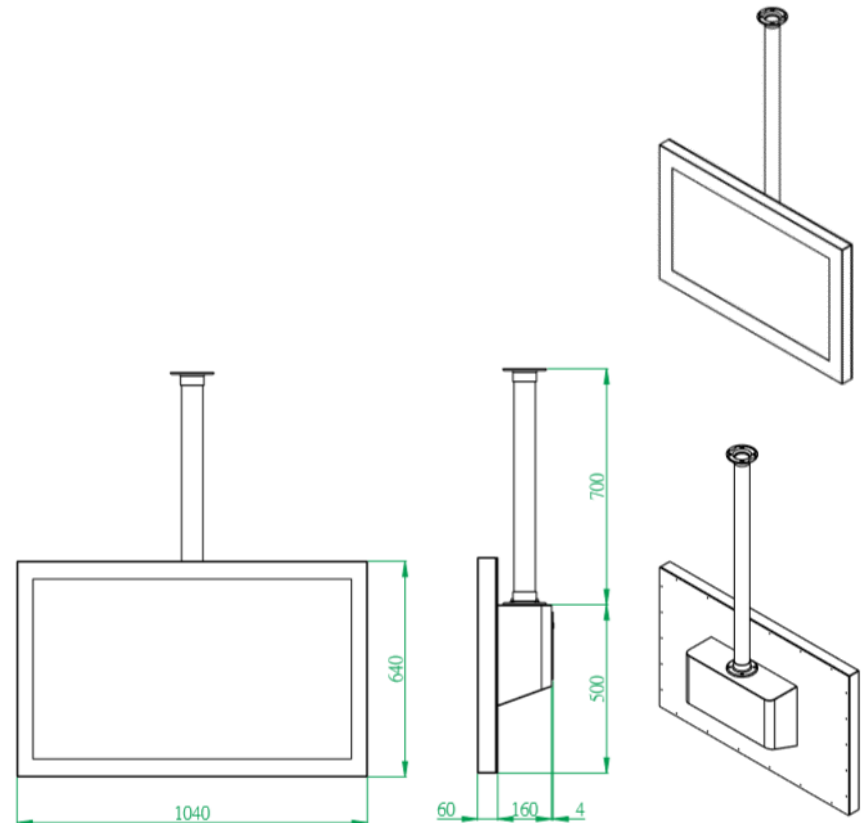
21.5" Full stainless steel IP69K/66 PCT Touch Monitor

- Full System Stainless Steel **316**, IP66/69K Protection
- 21.5" LCD Industrial Touch Monitor, Resolution: 1920 x 1080, Brightness: 250 nits
- **True flat and Slim bezel , Projected Capacitive Touch**
- **Intel Pentium N4200 (Apollo lake)**
- **Projected Capacitive Touch**
- Display output:
 - **M12**, 1 VGA
- I/O interface:
 - **M12**, 2 Water proof connector GigaLAN
 - **M12**, 2 COM ports (1 RS-232, 1 RS-232/422/485)
 - **M12**, 2 USB 3.0 + 2 USB 2.0
- WiFi support, 802.11 b/g/n/ac + BT 4.2
- Touch on/off Hot key
- 9~36V DC Input
- Operation Temperature: -20~60°C
- VESA Mount/ Yoke Mount

PPC-Z433XW Spec.

Full IP66/69K 43" Apollolake Food Factory Dashboard

- Full System Stainless Steel **316, Brush, IP66/69K**
- 43" LCD Panel PC, Resolution: **1920 x 1080**, Brightness: **450 nits**
- **Intel Pentium N4200 2.5G**
- I/O interface:
 - 1 GigaLAN
 - 2 COM ports (1 RS-232, 1 RS-232/422/485)
 - 2 USB
- Easy maintenance
- Storage : 1x SATA HDD/SSD
- AC 100~240V AC Input
- Operation Temperature: 0~50°C
- Flange adapter for Arm and Foot system



PPC-Z157PW Spec.



Full IP66/69K 15.6" KabyLake-U PCT Touch Panel PC

- Full System Stainless Steel IP66/69K
- 15.6" LCD Panel PC, Resolution: **1920 x 1080**, Brightness: 450 nits
- **Projected Capacitive Touch**
- **Intel 7th Gen Core i (KabyLake) i5-7200U 3.1G / i3-7100U 2.4G**
- I/O interface:
 - **M12**, 2 GigaLAN
 - **M12**, 2 COM ports (1 RS-232, 1 RS-232/422/485)
 - **M12**, 2 USB
- Touch On/Off Button
- Storage : 1x SATA HDD/SSD
- 9~36V DC Input
- Operation Temperature: -20~60°C
- VESA Mount, Yoke Mount
- Flange adapter for Arm and Foot system



PPC-Z153PW Spec.



Full IP66/69K 15.6" Apollolake PCT Touch Panel PC

- Full System Stainless Steel IP66/69K
- 15.6" LCD Panel PC, Resolution: **1920 x 1080**, Brightness: 450 nits
- **Projected Capacitive Touch**
- **Intel Pentium N4200 (Apollo lake)**
- I/O interface:
 - **M12**, 2 Water proof connector GigaLAN
 - **M12**, 2 COM ports (1 RS-232, 1 RS-232/422/485)
 - **M12**, 2 USB
- Touch On/Off Button
- Storage : 1x SATA HDD/SSD
- 9~36V DC Input
- Operation Temperature: -20~60°C
- VESA Mount, Yoke Mount
- Flange adapter for Arm and Foot system



New!

PPC-Z103 Spec.

Full IP66/69K 10.1" Apollo lake P-Cap Touch Panel PC

- Full System Stainless Steel IP66/69K
- 10.1" LCD Panel PC, Resolution: 1024 x 600, Brightness: 450 nits
- **Projected Capacitive Touch**
- **Intel Pentium N4200**
- Display & I/O output:
 - 1 LAN, 2 USB, 1 COM ports, Integrated Connectors
 - 1 Wifi 802.11 + BT (Option)
- Front Panel Function
 - Stop Button, Key switch, 2 function buttons
 - Waterproof USB connector
 - LED Tower Warning Bar
- One Key Recover Storage
- Storage : 1x SATA HDD/SSD
- 9~36V DC Input
- Operation Temperature: -20~60°C
- VESA Mount, Flange adapter for Arm and Foot system



PPC-Z177 Spec.

Full IP66/69K 17" Skylake-U Core i / Celeron PCT Touch Panel PC

- Full System Stainless Steel IP66
- 17" LCD Panel PC, Resolution: 1280 x 1024, Brightness: 350 nits
- **Projected Capacitive Touch**
- **Intel Core i (Skylake-U) i5-6200U / Celeron 3955U**
- **On board 4G RAM**
- Display output:
 - VGA
- I/O interface:
 - **M12**, 2 Water proof connector GigaLAN
 - **M12**, 2 COM ports (1 RS-232, 1 RS-232/422/485)
 - **M12**, 2 USB
 - **M12**, 1 VGA
- Storage : 1x SATA HDD/SSD
- 12~28V DC Input
- Operation Temperature: -20~60°C
- VESA / Pedestal Mount



Water-Proof Cables with M12 connector



HDMI

AKT-HDMI5IP66
IP66 Connector to
HDMI Cable, 5m



USB

AKT-TOU2M12
M12 Connector to Touch
USB Cable, 2m



VGA

AKT-VGA2M12-M
M12 Connector to DB15
VGA Male Cable, 2m



COM

AKT-COM2M12
M12 Connector to DB9
Comport Male Cable, 2m



LAN

AKT-LAN2M12
M12 Connector to RS-45
LAN Cable, 2m



USB

AKT-USB2M12
M12 Connector to USB
2port Cable, 2m



Multi-touch Panel PC-S Series

Panel PC-S series

- Front Cover IP65 Protection
- **SUS 316** Stainless Steel Front Bezel
- **Brushed Finish**
- True flat Touch Solution
- Support VESA mount and Panel Mount



IP65 Flat Panel Design
Stainless Front cover



Under 2mm



Standard PC connector

Panel PC-SPF series

- 4 sides IP65 Protection
- **SUS 316** Stainless Steel , **Full Frame**
- **Shiny Polished/brushed Finish**
- True flat Touch Solution
- Support VESA mount and Panel Mount



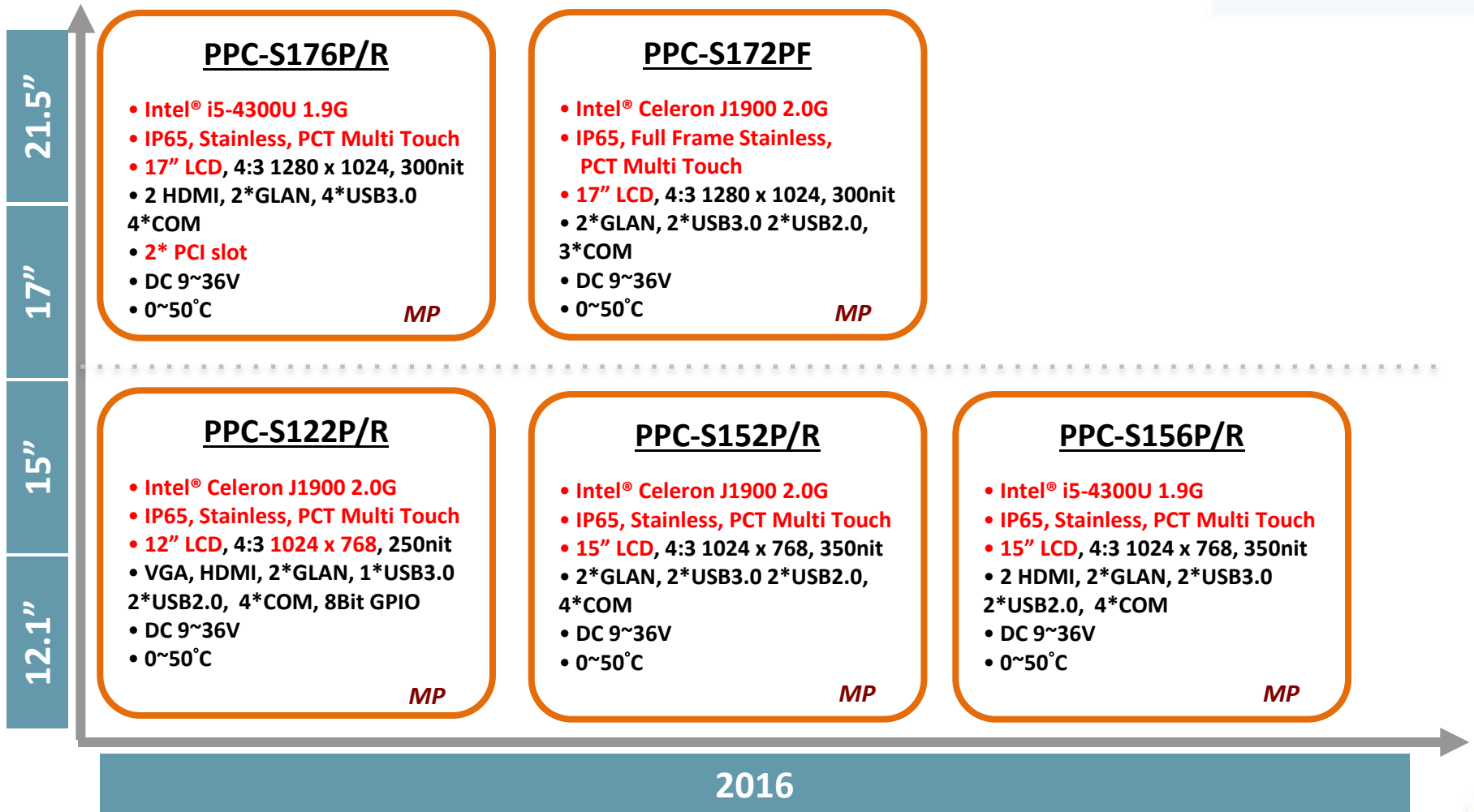
IP65 Full Frame Protection



Standard PC connector

IP-65 Multi-touch Panel PC – S Series Product Roadmap

 MP
 New
 Planned



2016

Multi-touch Panel PC- N Series



Panel PC-N Series

- Sleek Sliver front bezel design with front IP65
- Chragable CPU module design to increase flexibility
- Swappable HDD for easy maintenance
- VESA mount & Panel Mount



Flexible CPU Module Design



PPC-N153

(ApolloLake CPU module)



**Change to KabyLake
CPU module**



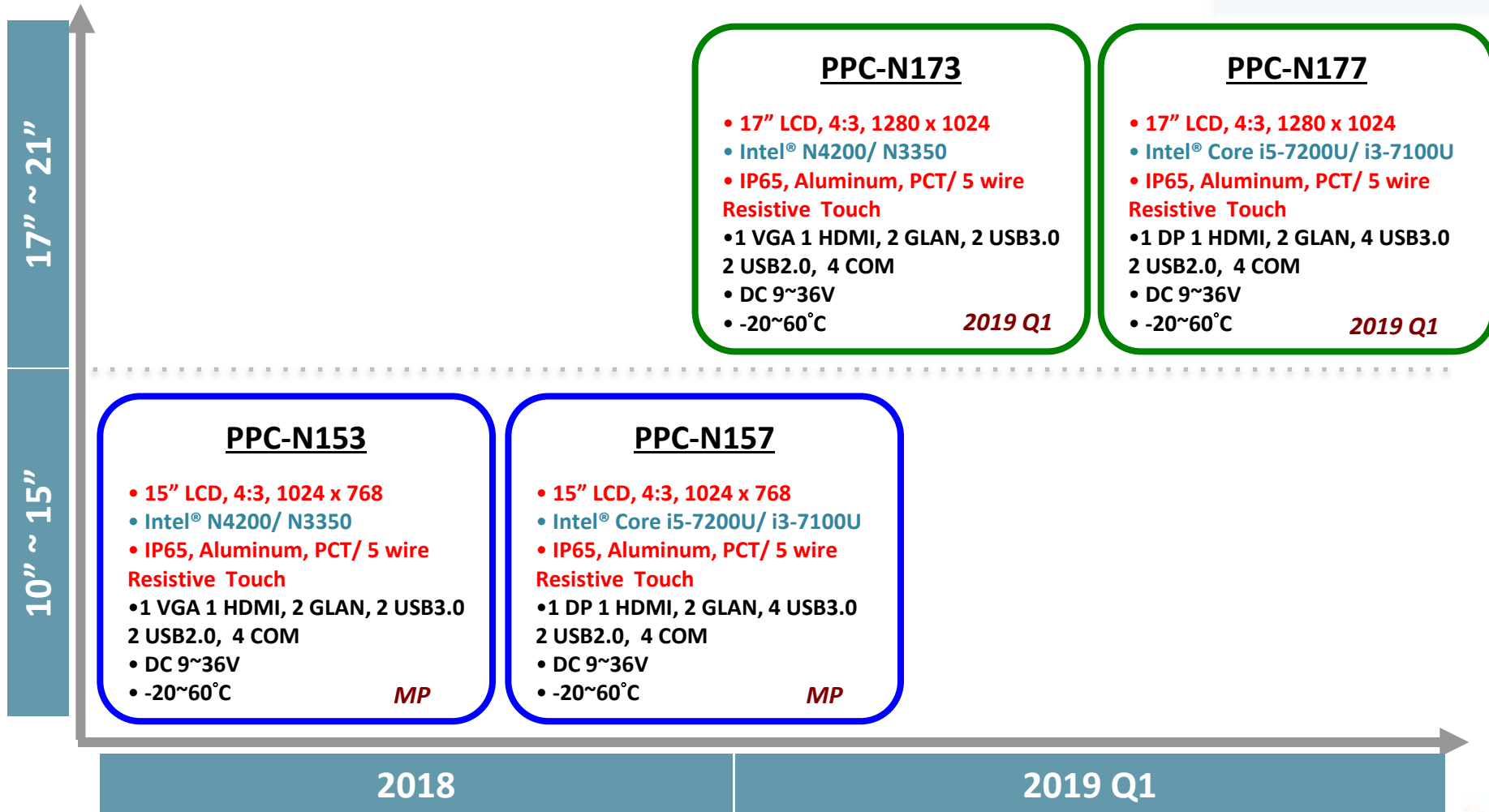
PPC-N157
(KabyLake CPU module)

Easy to Maintain



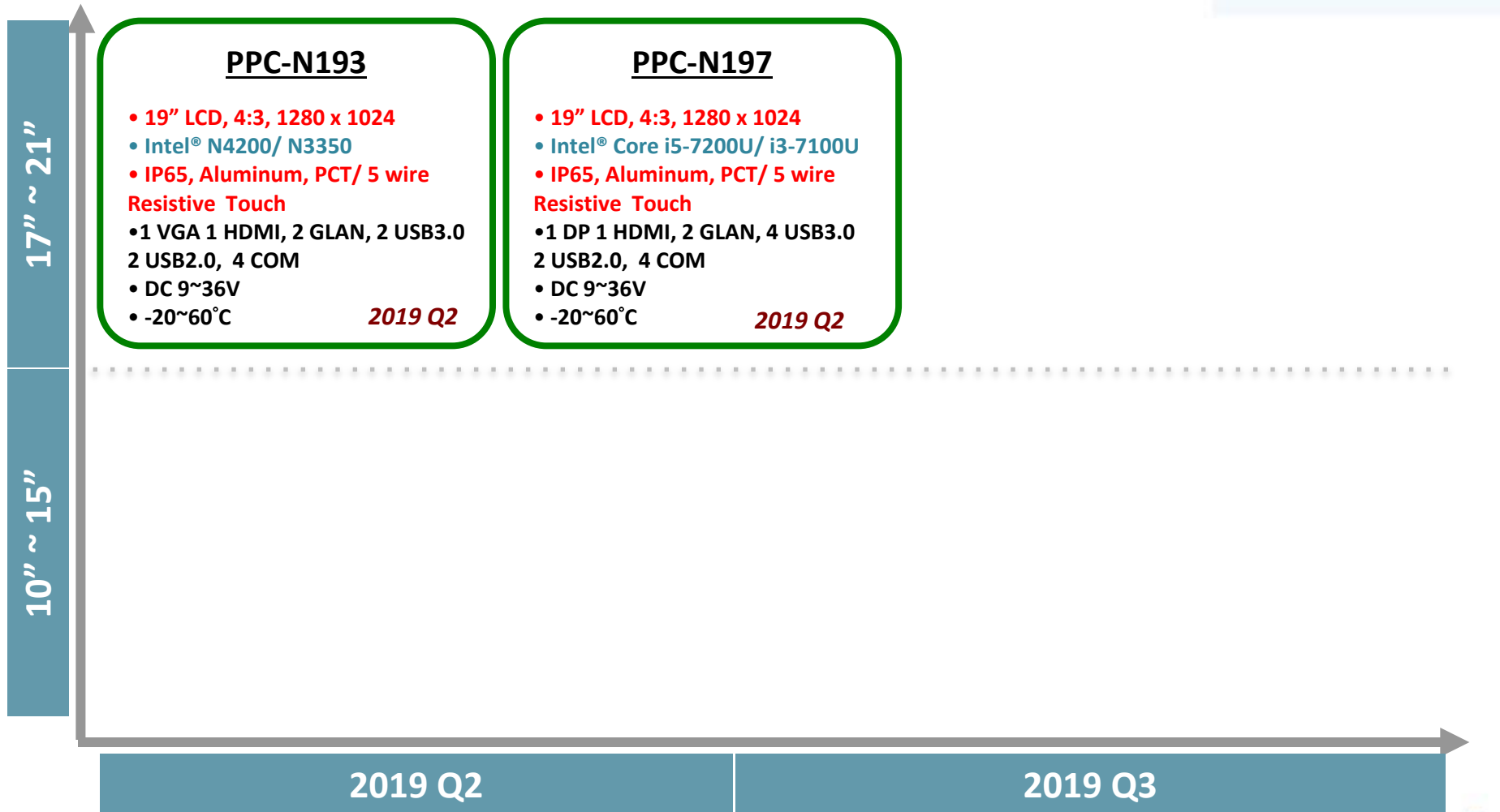
Panel PC – N Series Product Roadmap

 MP
 New
 Planned



Panel PC – N Series Product Roadmap

MP New Planned





PPC-N153 Spec.

Aluminum Front IP65 15" Apollolake Touch Panel PC

- Aluminum Front IP 65 Protection
- 15" LCD Panel PC, Resolution: 1024 x 768, Brightness: 300 nits
- Support Projected Capacitive Touch / 5 wired Resistive Touch
- Intel Pentium (Apollolake) N4200 2.5G / N3350 2.4G
- Multi Display
 - LCD + VGA and LCD + HDMI
- I/O output:
 - 2 LAN, 4 USB, 4 COM port and 8 bits Digital I/O
- Storage : 1 SATA HDD/SSD, Swappable HDD Driver box(Optional), 1 M.2 B/M Key 2240
- 9~36V DC Input
- Operation Temperature: -20~60°C
- VESA Mount, Panel Mount



PPC-N157 Spec.

Aluminum Front IP65 15" Intel 7th Gen Core i Touch Panel PC

- **Aluminum Front IP 65 Protection**
- **15" LCD Panel PC, Resolution: 1024 x 768, Brightness: 300 nits**
- **Support Projected Capacitive Touch / 5 wired Resistive Touch**
- **Intel 7th Gen Core i (KabyLake) i5-7200U 3.1G / i3-7100U 2.4G**
- **Multi Display**
 - LCD + DP and LCD + HDMI
- **I/O output:**
 - 2 LAN, 4 USB, 4 COM port and 8 bits Digital I/O
- **Storage : 1 SATA HDD/SSD, Swappable HDD Driver box(Optional), 1 M.2 2280**
- **Expansion: 1 miniPCIe with SIM, 1 M.2 2230 A/E Key (Wifi & BT)**
- **9~36V DC Input**
- **Operation Temperature: -20~60°C**
- **VESA Mount, Panel Mount**

PPC-N173 Spec.

Aluminum Front IP65 17" Apollolake Touch Panel PC

- Aluminum Front IP 65 Protection
- 17" LCD Panel PC, Resolution: 1280 x 1024, Brightness: 350 nits
- Support Projected Capacitive Touch / 5 wired Resistive Touch
- Intel Pentium (Apollolake) N4200 2.5G / N3350 2.4G
- Multi Display
 - LCD + VGA and LCD + HDMI
- I/O output:
 - 2 LAN, 4 USB, 4 COM port and 8 bits Digital I/O
- Storage : 1 SATA HDD/SSD, Swappable HDD Driver box(Optional), 1 M.2 B/M Key 2240
- 9~36V DC Input
- Operation Temperature: -20~60°C
- VESA Mount, Panel Mount

PPC-N177 Spec.

Aluminum Front IP65 17" Intel 7th Gen Core i Touch Panel PC

- **Aluminum Front IP 65 Protection**
- **17" LCD Panel PC, Resolution: 1280 x 1024, Brightness: 350 nits**
- **Support Projected Capacitive Touch / 5 wired Resistive Touch**
- **Intel 7th Gen Core i (KabyLake) i5-7200U 3.1G / i3-7100U 2.4G**
- **Multi Display**
 - LCD + DP and LCD + HDMI
- **I/O output:**
 - 2 LAN, 4 USB, 4 COM port and 8 bits Digital I/O
- **Storage : 1 SATA HDD/SSD, Swappable HDD Driver box(Optional), 1 M.2 2280**
- **Expansion: 1 miniPCIe with SIM, 1 M.2 2230 A/E Key (Wifi & BT)**
- **9~36V DC Input**
- **Operation Temperature: -20~60°C**
- **VESA Mount, Panel Mount**

PPC-N193 Spec.

Aluminum Front IP65 19" Apollolake Touch Panel PC

- **Aluminum Front IP 65 Protection**
- **19" LCD Panel PC, Resolution: 1280 x 1024, Brightness: 350 nits**
- **Support Projected Capacitive Touch / 5 wired Resistive Touch**
- **Intel Pentium (Apollolake) N4200 2.5G / N3350 2.4G**
- **Multi Display**
 - LCD + VGA and LCD + HDMI
- **I/O output:**
 - 2 LAN, 4 USB, 4 COM port and 8 bits Digital I/O
- **Storage : 1 SATA HDD/SSD, Swappable HDD Driver box(Optional), 1 M.2 B/M Key 2240**
- **9~36V DC Input**
- **Operation Temperature: -20~60°C**
- **VESA Mount, Panel Mount**

PPC-N197 Spec.

Aluminum Front IP65 19" Intel 7th Gen Core i Touch Panel PC

- **Aluminum Front IP 65 Protection**
- **19" LCD Panel PC, Resolution: 1280 x 1024, Brightness: 350 nits**
- **Support Projected Capacitive Touch / 5 wired Resistive Touch**
- **Intel 7th Gen Core i (KabyLake) i5-7200U 3.1G / i3-7100U 2.4G**
- **Multi Display**
 - LCD + DP and LCD + HDMI
- **I/O output:**
 - 2 LAN, 4 USB, 4 COM port and 8 bits Digital I/O
- **Storage : 1 SATA HDD/SSD, Swappable HDD Driver box(Optional), 1 M.2 2280**
- **Expansion: 1 miniPCIe with SIM, 1 M.2 2230 A/E Key (Wifi & BT)**
- **9~36V DC Input**
- **Operation Temperature: -20~60°C**
- **VESA Mount, Panel Mount**

Multi-touch Panel PC- 100 Series



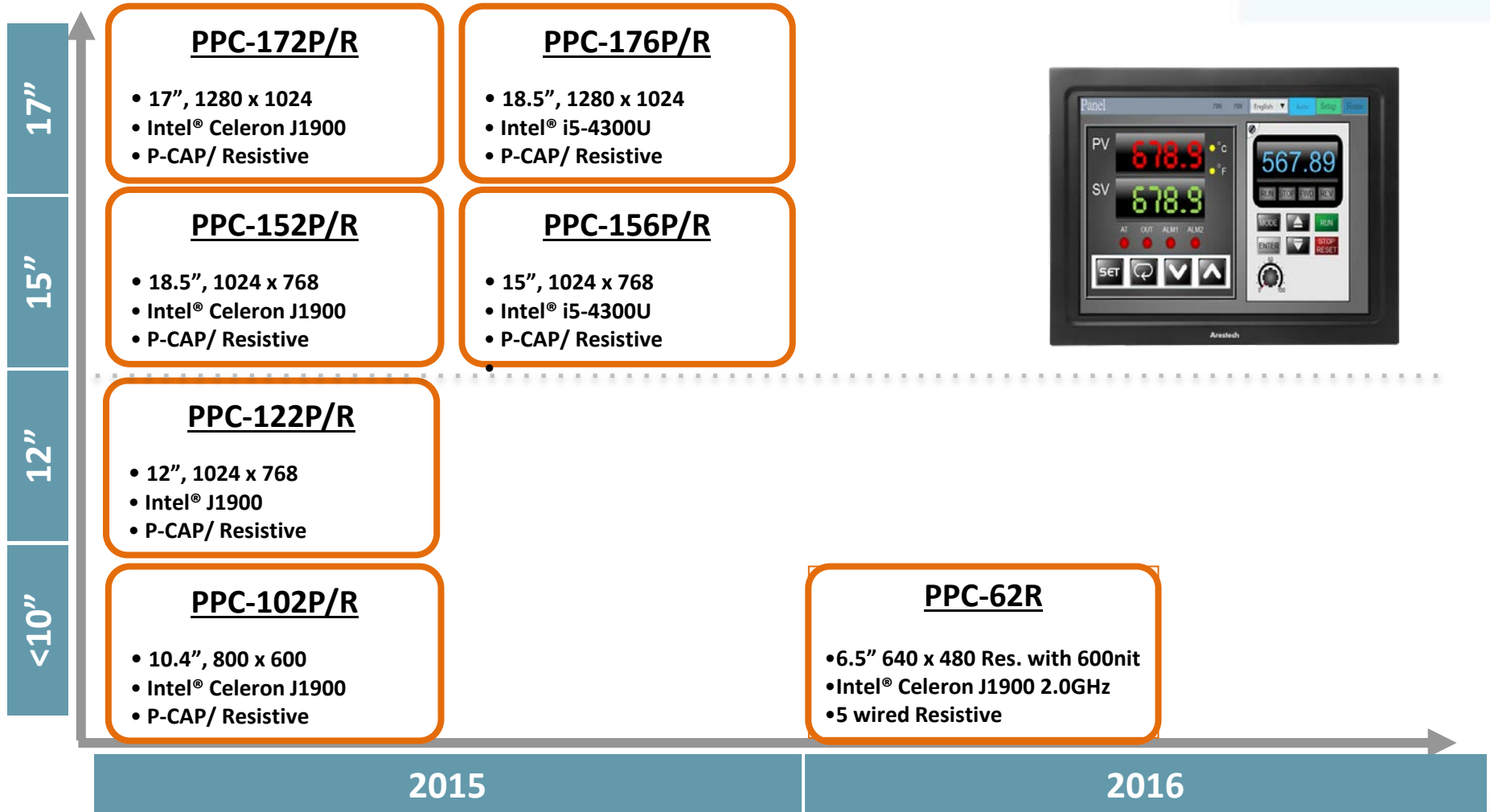
PPC-100 Series

- Front Cover IP54, SECC Enclosure
- Cost Effective, Easy Installation and Maintenance
- Ultra Slim and Compact design
- 4:3 ratio, from 6.5~17" LCD Monitor Size
- 16:9 ratio, from 10.1 to 21.5" LCD Monitor Size
- Support both VESA & Panel Mount



Panel PC – 100 4:3 Series

 MP
 New
 Planned



Panel PC – 100 16:9 Series

 MP
 New
 Planned

PPC-212P

- 21.5", 1920 x 1080
- Intel® Celeron J1900
- P-CAP Touch

MP

PPC-216P

- 21.5", 1920 x 1080
- Intel® i5-4300U
- P-CAP Touch

MP

PPC-186P

- 18.5", 1366 x 768
- Intel® i5-4300U
- P-CAP

MP

PPC-182P

- 18.5", 1366 x 768
- Intel® Celeron J1900
- P-CAP

MP

PPC-152PW

- Intel® Celeron J1900
- Projected Capacitive Touch
- -20~60°C

PPC-157PW

- Intel® Core i5-7200U
- Projected Capacitive Touch
- 15.6", 1920 x 1080, 450nits
- 2 GLAN, 4 USB, 4 COM, DIO
- DC 9~36V
- -20~60°C

MP

PPC-102PW

- Intel® Celeron J1900
- Projected Capacitive Touch
- 10.1", 1280 x 600, 350nits
- -20~60°C

MP

PPC-72PW

- Intel® Celeron J1900
- Projected Capacitive Touch
- 7", 800 x 640, 350nits
- -20~60°C

MP



2016~2018

Q1' 19

PPC-157PW Spec.



15.6" Panel PC with Intel KabyLake-U CPU

- 15.6" LCD Panel PC, Resolution: 1920 x 1080, Brightness: 450 nits,
- Front Cover Protection IP65
- **Projected Capacitive Touch**
- **Intel 7th Gen Core i (KabyLake) i5-7200U 3.1G / i3-7100U 2.4G**
- Display output:
 - HDMI + VGA
- I/O interface:
 - 2 GLAN
 - 4 COM ports (3 RS-232, 1 RS-232/422/485)
 - 2 USB 3.0 + 2 USB2.0
 - 1 8bit GPIO
- Storage : 1 SATA HDD/SSD, 1 M.2 2280
- Expansion:
 - 1 miniPCIe with SIM,
 - 1 M.2 2230 A/E Key (Wifi & BT)
- 9~36V DC Input
- Operation Temperature: -20~60°C
- Support Panel Mount & VESA Mount





Industrial Multi-touch Display

The Difference Types of Touch Monitor



	TPM-2100	TPM-3100	TPM-3200	TPM-3300	TPM-3500	TPM-3600
IP Level	IP54	N/A	IP54	IP65	IP65	IP66/69K
Bezel / Panel	Open frame	Open frame	Metal / Alumina Bezel	Stainless Steel Bezel	Alumina Bezel	Full Stainless Steel
Touch Type	P-Cap	P-Cap/ Resistive	P-Cap/ Resistive	P-Cap/ Resistive	P-Cap/ Resistive	P-Cap
Video output	VGA + DVI or VGA + DP + HDMI					
Power Input	12 ~24V DC or 12V DC					
Mounting	VESA Mount / Panel Mount					Panel /Yoke Mount

IP65/ IP66/69K Touch monitors

TPM-33XX

Front IP65 Stainless Steel True Flat For Panel/ VESA Mount



Slim Bezel (Under 2mm)

TPM-35XX

Front IP65 Aluminum Bezel support Panel & VESA mount



TPM-36xx Series

IP66/69K Stainless Steel , M12 Connector / VESA and Yoke Mount



TPM-3600 series

- Full System IP66/IP69K Protection
- Stainless Steel **316, Shiny Polished Finish**
- Waterproof M12 Connector
- True flat Touch Solution
- Support VESA mount and Yoke Mount



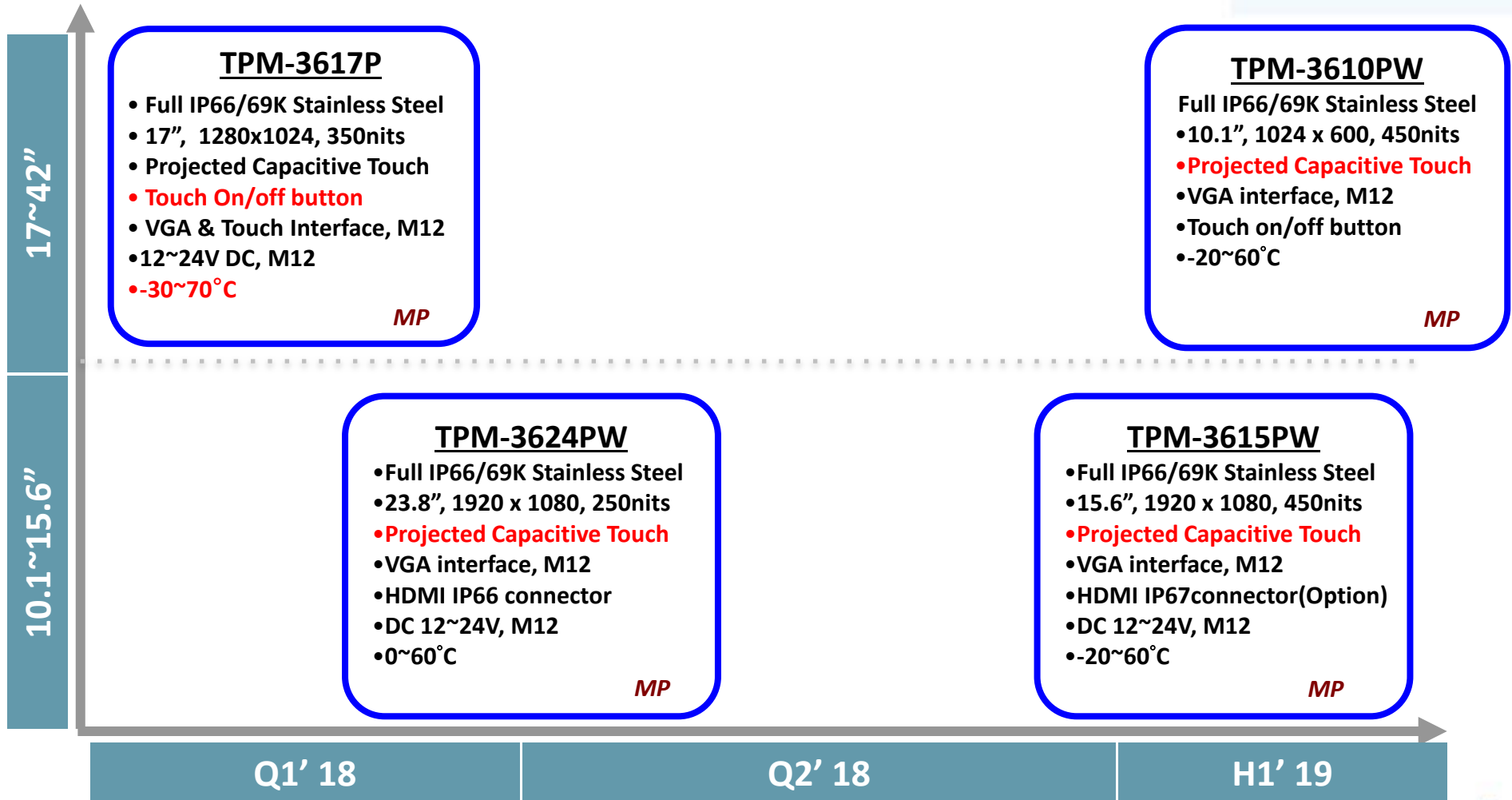
Wide Bezel Type



Thin Bezel Type

TPM-3600 Full System IP66/69K Stainless Steel 316 Series Product Roadmap

MP New Planned



TPM-3617P

- Full IP66/69K Stainless Steel
- 17", 1280x1024, 350nits
- Projected Capacitive Touch
- **Touch On/off button**
- VGA & Touch Interface, M12
- 12~24V DC, M12
- **-30~70°C**

MP

TPM-3610PW

- Full IP66/69K Stainless Steel
- 10.1", 1024 x 600, 450nits
- **Projected Capacitive Touch**
- VGA interface, M12
- Touch on/off button
- **-20~60°C**

MP

TPM-3624PW

- Full IP66/69K Stainless Steel
- 23.8", 1920 x 1080, 250nits
- **Projected Capacitive Touch**
- VGA interface, M12
- HDMI IP66 connector
- DC 12~24V, M12
- **0~60°C**

MP

TPM-3615PW

- Full IP66/69K Stainless Steel
- 15.6", 1920 x 1080, 450nits
- **Projected Capacitive Touch**
- VGA interface, M12
- HDMI IP67connector(Option)
- DC 12~24V, M12
- **-20~60°C**

MP

Q1' 18

Q2' 18

H1' 19

TPM-3615PW Spec.

New!

15.6" Full HD stainless steel IP69K/66 PCT Touch Monitor

- SUS 316 Stainless Steel
- IP66/69K Protection fully sealed
- 15.6" LCD Industrial Touch Monitor
- Resolution: **1920 x 1080**, Brightness: **450 nits**
- **Projected Capacitive Touch**
- Display output:
 - VGA M12 Connector
 - HDMI IP66 Connector (Option)
- Touch on/off Hot key
- 12~24V DC Input
- Operation Temperature: -20~60°C
- VESA / Yoke Mount



TPM-3610PW Spec.

New!

17" Full stainless steel IP69K/66 PCT Touch Monitor

- **SUS 316** Stainless Steel
- IP66/69K Protection
- 10.1" LCD Industrial Touch Monitor
- Resolution: **1024 x 600**, Brightness: **450** nits
- **Projected Capacitive Touch**
- Display output:
 - VGA M12 Connector
- Touch on/off Hot key
- 12~24V DC Input
- Operation Temperature: -20~60°C
- VESA / Yoke Mount



TPM-3617 Spec.

17" Full stainless steel IP69K/66 PCT Touch Monitor

- Full System Stainless Steel 316
- IP66/69K Protection
- 17" LCD Industrial Touch Monitor
- Resolution: 1280 x 1024, Brightness: 350 nits
- **Projected Capacitive Touch**
- Display output:
 - VGA M12 Connector
 - HDMI IP66 Connector (Option)
- Touch on/off Hot key
- 12~24V DC Input
- Operation Temperature: **-30~70°C**
- VESA / Yoke Mount



TPM-3624PW Spec.

24" Full stainless steel IP69K/66 PCT Touch Monitor

- Full System Stainless Steel **316**
- IP66/69K Protection
- 23.8" LCD Industrial Touch Monitor
- Resolution: 1920 x 1080, Brightness: 250 nits
- **True flat and Slim bezel**
- **Projected Capacitive Touch**
- Display output:
 - VGA M12 Connector
 - HDMI IP66 Connector (Option)
- Touch on/off Hot key
- 12~24V DC Input
- Operation Temperature: 0~60°C
- VESA Mount



TPM-3500 series

- Front Cover IP65 Protection
- Aluminum front Bezel, Ultra Slim
- True flat Touch Solution
- Support VESA mount and Panel Mount



VESA Mount



Panel Mount



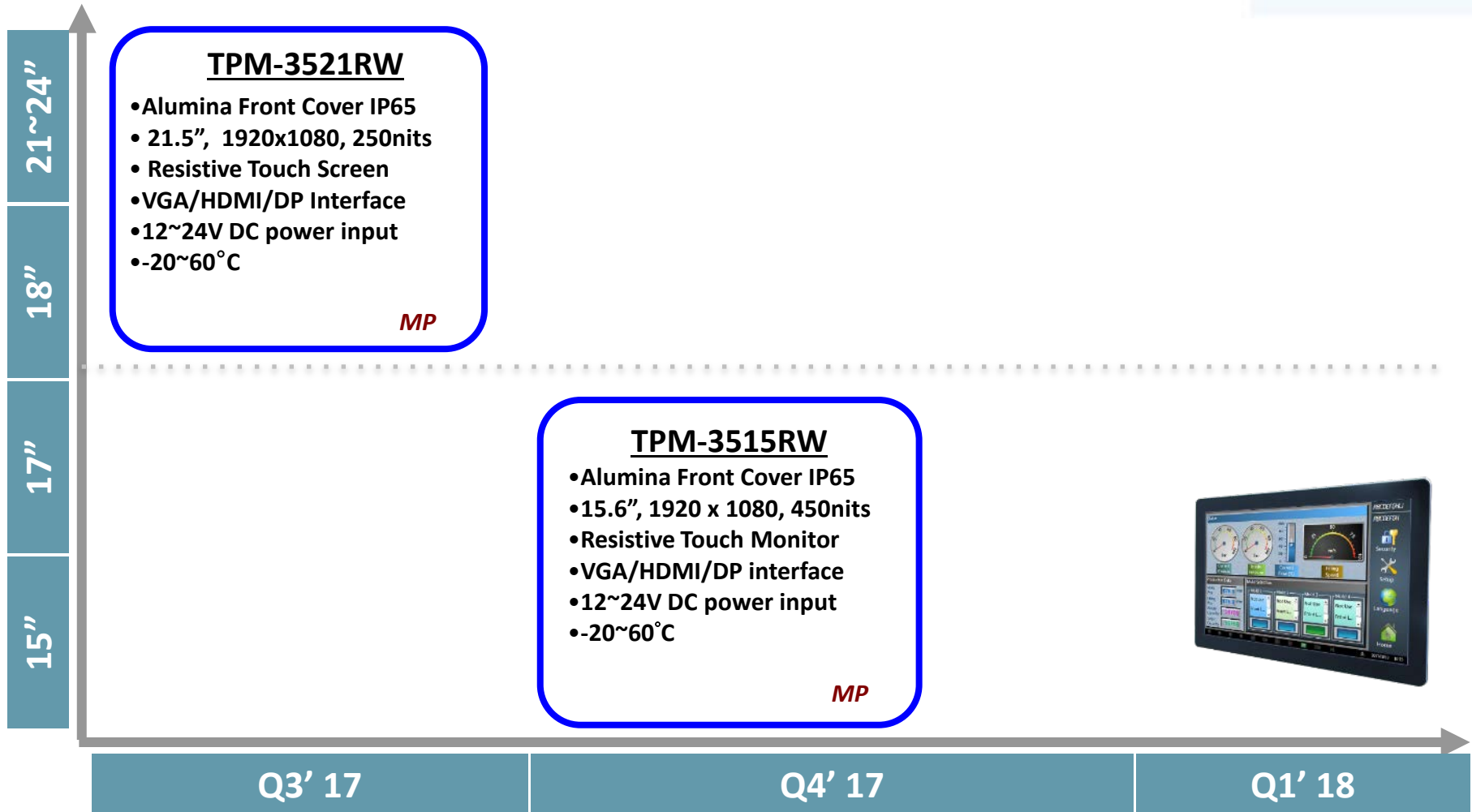
IP65 True Flat
Front Bezel



Under 4mm

TPM-3500 IP65 Alumina Series Product Roadmap

MP New Planned



TPM-3521/ TPM-3515RW Spec.

21.5" and 15.6" Aluminum front IP65 Resistive Touch Monitor

- Aluminum front cover IP65
- 21.5" and 15.6" **Full HD** Industrial Touch Monitor
- Resolution: 1920 x 1080, Brightness: 250 / 450 nits
- **True flat and Slim bezel**
- **5 wired Resistive Touch Monitor**
- Display output:
 - VGA
 - DP
 - HDMI
- Remote control OSD and on/off
- **12~24V DC Input**
- Operation Temperature: -20~60°C
- VESA Mount/ Panel Mount



TPM-3300 series

- Front Cover IP65 Protection
- Stainless Steel **304**
- **Shiny Polished Finish**
- True flat Touch Solution
- Support VESA mount and Panel Mount



IP65 Flat Panel Design
Stainless Front cover



Under 2mm



Standard PC connector

TPM – 3300P **Stainless** Series Product Roadmap

MP New Planned

TPM-3315P

- **Stainless Steel, IP65**
- 15" Panel, XGA (1024 * 768)
- 250/**1000** nits brightness
- Project capacitive Touch
- 12~24 Vdc power input

MP

TPM-3312P

- **Stainless Steel, IP65**
- 12.1" Panel (1024 * 768)
- 450/**1000** nits brightness
- Project capacitive Touch
- 12~24 Vdc power input

MP

TPM-3317P

- **Stainless Steel, IP65**
- 17" SXGA panel (1280 x 1024)
- 350 nits brightness
- Project capacitive Touch
- 12~24 Vdc power input

MP



TPM-3321P

- **Stainless Steel, IP65**
- 21.5" LED FHD Panel support up to 1920x1080
- **700/ 1500nits high brightness**
- Multi-Touch Screen (Project capacitive touch)
- VGA/DVI/HDM Interface

MP

TPM-3315PW

- **Stainless Steel, IP65**
- 15" Panel, XGA (1920* 1080)
- 450nits brightness
- IP67 Front USB input
- Project capacitive Touch
- 12~24 Vdc power input

MP

2017

TPM-3315PW Spec.

15.6" Stainless Steel front IP65 Pcap Touch Monitor

- Stainless Steel front cover IP65
- 15.6" Full HD Industrial Touch Monitor
- Resolution: **1920 x 1080**, Brightness: 400 nits
- **True flat**
- Projected Capacitive Touch Monitor
- Display output:
 - VGA
 - DP
 - HDMI
- **Front USB IP66 Connector**
- Remote control OSD and on/off
- **12~24V DC Input**
- Operation Temperature: -20~60°C
- VESA Mount/ Panel Mount



TPM-3200 Series

- Front Cover IP54, SECC Material
- Cost Effective, Easy Installation and Maintenance
- Ultra Slim and Compact
- 4:3 ratio, from 6.5~17" LCD Monitor Size
- 16:9 ratio, from 10.1 to 21.5" LCD Monitor Size
- Support VESA mount and Panel Mount



TPM-3200 Series

	TPM-3210	TPM-3212	TPM-3215	TPM-3217	TPM-3218	TPM-3221
Size	10.4"	12.1"	15"	17"	18.5"	21.5"
Resolution	1024 x 768	1024 x 768	1024 x 768	1280 x 1024	1366 x 768	1920 x 1080
Touch Type	PCT Multi Touch	PCT Multi Touch	PCT Multi Touch	PCT Multi Touch	PCT Multi Touch	PCT Multi Touch
	Resistive Single Touch	Resistive Single Touch	Resistive Single Touch	Resistive Single Touch		
Touch Interface	USB / RS-232	USB / RS-232	USB / RS-232	USB / RS-232	USB	USB
I/O	1 x VGA 1 x 12~24 V 1 x USB 1 x RS-232	1 x VGA 1 x 12~24 V 1 x USB 1 x RS-232	1 x VGA 1 x 12~24 V 1 x USB 1 x RS-232	1 x VGA 1 x 12~24 V 1 x USB 1 x RS-232	1 x VGA 1 x DP 1 x HDMI 1 x 12~24V 1 x USB	1 x VGA 1 x DP 1 x HDMI 1 x 12~24V 1 x USB

TPM – 3200P Series (Projected Capacitive) Product Roadmap

MP
 New
 Planned

TPM-3215P

- 15" LED Panel
- XGA (1024 * 768)
- 300 nits brightness
- Project capacitive Touch
- 12~24 Vdc power input with 2-pin phoenix connector

MP

TPM-3212P

- 12.1" LED Panel
- SVGA (800 * 600)
- 450 nits brightness
- Project capacitive Touch
- 12~24 Vdc power input with 2-pin phoenix connector

MP

TPM-3210P

- 10.4" LED Panel
- SVGA (1024 * 768)
- 450 nits brightness
- Projected Capacitive Touch
- 12~24 Vdc power input with 2-pin phoenix

MP

TPM-3217P

- 17" LED SXGA panel
- 1280 x 1024
- 350 nits brightness
- Project capacitive Touch
- 12~24 Vdc power input with 2-pin phoenix connector

MP

TPM-3218P

- 18.5" LED HD panel support up to 1366 x 768
- 250 nits brightness
- Multi-Touch Screen (Project capacitive touch)
- VGA/DP/HDMI interface
- 2W Stereo speaker

MP

TPM-3221P

- 21.5" LED FHD Panel support up to 1920x1080
- 250 nits brightness
- Multi-Touch Screen (Project capacitive touch)
- VGA/DP/HDM Interface
- 2W Stereo speaker

MP



Q2'14

4:3

16:9

TPM – 3200R Series (5-wired Resistive) Product Roadmap

MP New Planned

TPM-3210R

- 10.4" Panel
- SVGA (1024 * 768)
- 450 nits brightness
- 5-Wire Res. Touch Screen
- 12~24 Vdc power input with 2-pin phoenix connector

MP

TPM-3215R

- 15" Panel
- XGA (1024 * 768)
- 250 nits brightness
- 5-Wire Res. Touch Screen
- 12~24 Vdc power input with 2-pin phoenix connector

MP

TPM-3217R

- 17" SXGA panel support up to 1280 x 1024
- 350 nits brightness
- 5-Wire Res. Touch Screen
- 12~24 Vdc power input with 2-pin phoenix connector

MP

TPM-3212R

- 12.1" Panel
- SVGA (1024 * 768)
- 450 nits brightness
- 5-Wire Res. Touch Screen
- 12~24 Vdc power input with 2-pin phoenix connector

MP

4:3

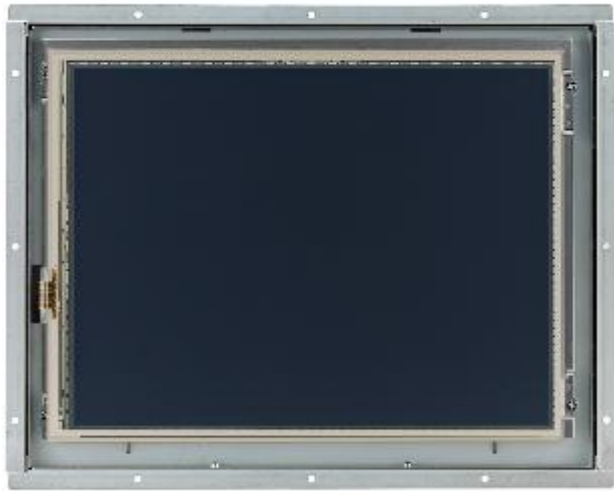
16:9



Q1'13

Q2'13

Two Types of Open frame Touch monitor



TPM – 3100 series for Panel Mount



TPM – 2100 series for VESA Mount

TPM – 3100P/R Series

(Open frame Touch monitor) Product Roadmap

MP New Planned

TPM-3112P/R

- 12.1" LED Panel
 - SVGA (1024 * 768)
 - 450 nits brightness
 - Project capacitive /Resistive Touch
 - VGA output
 - 12~24 Vdc power input
- MP*

TPM-3115P/R

- 15" LED Panel
 - XGA (1024 * 768)
 - 300 nits brightness
 - Project capacitive /Resistive Touch
 - VGA output
 - 12~24 Vdc power input
- MP*

TPM-3117P/R

- 17" LED Panel
 - SXGA (1280 x 1024)
 - 350 nits brightness
 - Project capacitive Touch/Resistive
 - VGA output
 - 12~24 Vdc power input
- MP*

TPM-3110P/R

- 10.4" LED Panel
 - SVGA (1024 * 768)
 - 450 nits brightness
 - Projected Capacitive Touch/Resistive
 - VGA output
 - 12~24 Vdc power input
- MP*

4:3

16:9



2015

TPM – 2100P Series (Open frame Touch monitor) Product Roadmap

MP New Planned

16:9

4:3

TPM-2121WP

- 21.5" LED Panel
 - 1920 x 1080
 - 250 nits brightness
 - Project capacitive Touch, USB interface
 - VGA, DP, HDMI
 - 12~24 Vdc power input
- MP*

TPM-2112P

- 12.1" LED Panel
 - XGA (1024 * 768)
 - 450 nits brightness
 - Project capacitive Touch, USB interface
 - VGA
 - 12~24 Vdc power input
- MP*

TPM-2115P

- 15" LED Panel
 - XGA (1024 * 768)
 - 250 nits brightness
 - Project capacitive Touch, USB interface
 - VGA
 - 12~24 Vdc power input
- MP*

2017

Q1'18





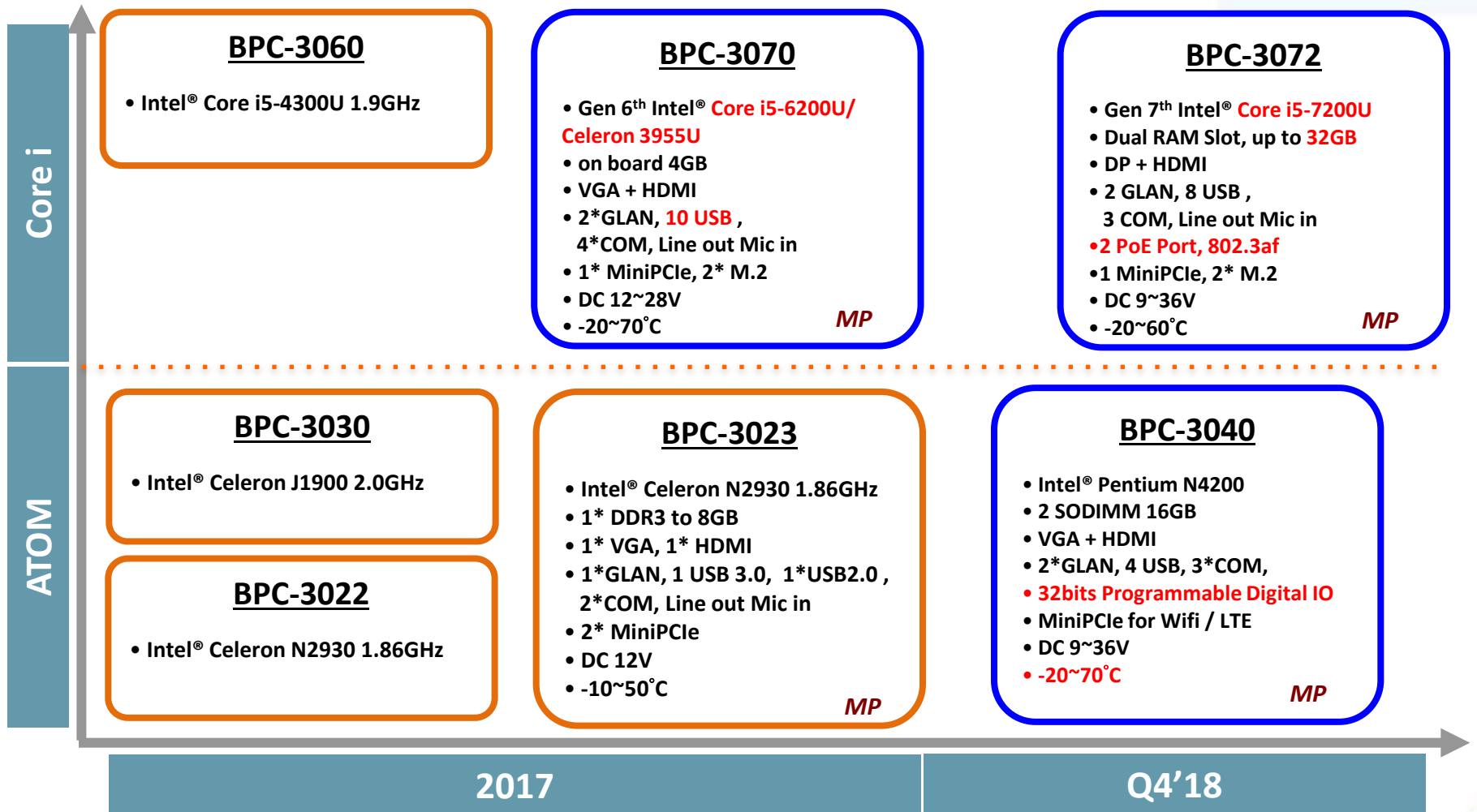
Embedded Box PC



Embedded Box PC – 3000 Series
Compact & Fanless Embedded Box PCs

Embedded Compact Box PC – 3000 Series Product Roadmap

 MP
 New
 Planned



New!

BPC-3072 Spec.

The New Kabylake-U Compact Box PC

- **Intel Core i5-7200U/i3-7100 (Kabylake-U)**
- **2 SODIMM Slot, DDR4 up to 32GB**
- **Display output:**
 - HDMI + DP
- **I/O interface:**
 - 2 / 4 GLAN (intel i210, i219LM)
 - **4 USB 3.0 + 2 USB 2.0**
 - **4 COM ports (3x RS-232, 1x RS-232/422/485)**
 - **8bit GPIO**
 - Line out, Mic in
- **miniPCIe/M.2 socket, Support Wifi 802.11ac + BT and LTE/3G module**
- **Storage : 1x SATA for SSD or HDD, 1 M.2 2280**
- **9~36V DC Input (Phoenix connector), Lockable**
- **Operation Temperature: -20~60 °C**
- **OS Support: Win10 IoT**



New!

BPC-3040 Spec.

The New Apollo lake Compact Box PC

- **Intel Pentium N4200 (Apollo Lake, Quad Core)**
- **2 SODIMM Slot, DDR3L up to 16GB**
- **Display output:**
 - HDMI + VGA
- **I/O interface:**
 - 2 GLAN (intel i210)
 - 3 COM ports (2x RS-232, 1x RS-232/422/485)
 - 2 USB 3.0 + 2 USB 2.0
 - Line out, Mic in
 - **32bits Programmable GPIO**
- **miniPCIe socket, Support Wifi and LTE/3G module**
- **Storage : 1x SATA for SSD or HDD, 1 mSATA**
- **9~36V DC Input (Phoenix connector), Lockable**
- **Operation Temperature: -20~70 °C**
- **OS Support: Win10 IoT**




BPC-3070 Spec.

The New Skylake-U Compact Box PC

- **Intel® Core i5-6200U/ Celeron 3555U 2.8GHz (Skylake ULT, Dual Core)**
- **On board 4GB**
- **Display output:**
 - VGA + 1 DP
- **I/O interface:**
 - **2 GigaLAN (1 Intel i219LM, 1 Intel i210AT)**
 - 4 COM ports (1x RS-232/422/485, 3 RS-232)
 - **10 USB (8 USB 3.0 + 2 USB 2.0)**
 - Line out/Mic in
- **Expansion: 2 x M.2 (w/SIM), miniPCle**
- **Storage : 1x SATA for SSD/HDD**
- **12~28V DC Input (Phoenix connector), Lockable**
- **Operation Temperature: -20~70 °C**
- **OS Support: Win10/8.1/7Pro/ WS7E/WE8S**
- **Mounting: Desktop mount, VESA mount, DIN Rail**

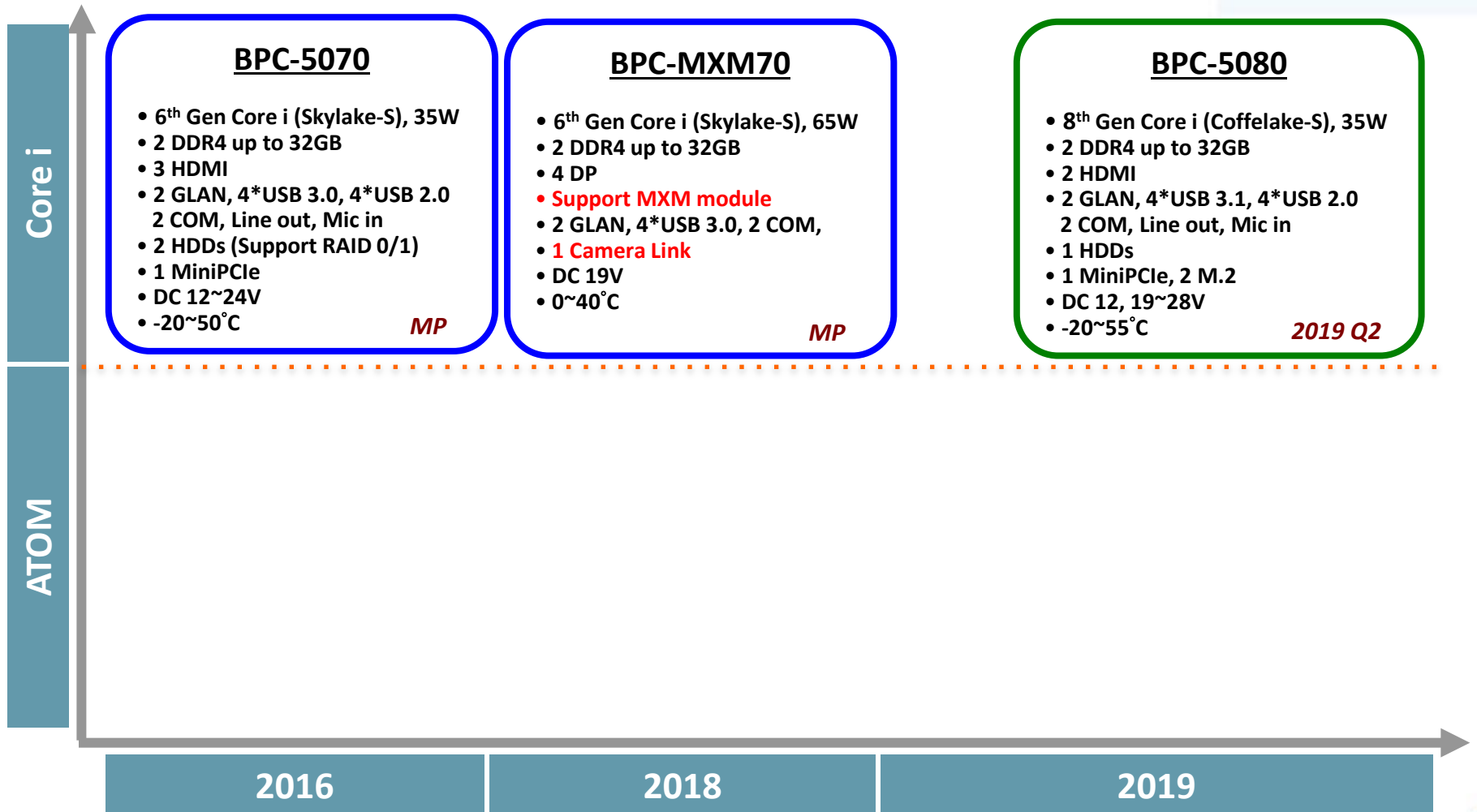




Embedded Box PC – 5000 Series
High Performance Embedded Box PCs

Embedded Box PC – 5000 Series Product Roadmap

MP
 New
 Planned



- BPC-5070**
- 6th Gen Core i (Skylake-S), 35W
 - 2 DDR4 up to 32GB
 - 3 HDMI
 - 2 GLAN, 4*USB 3.0, 4*USB 2.0
 - 2 COM, Line out, Mic in
 - 2 HDDs (Support RAID 0/1)
 - 1 MiniPCIe
 - DC 12~24V
 - -20~50°C
- MP*

- BPC-MXM70**
- 6th Gen Core i (Skylake-S), 65W
 - 2 DDR4 up to 32GB
 - 4 DP
 - **Support MXM module**
 - 2 GLAN, 4*USB 3.0, 2 COM,
 - **1 Camera Link**
 - DC 19V
 - 0~40°C
- MP*

- BPC-5080**
- 8th Gen Core i (Coffelake-S), 35W
 - 2 DDR4 up to 32GB
 - 2 HDMI
 - 2 GLAN, 4*USB 3.1, 4*USB 2.0
 - 2 COM, Line out, Mic in
 - 1 HDDs
 - 1 MiniPCIe, 2 M.2
 - DC 12, 19~28V
 - -20~55°C
- 2019 Q2*

2016

2018

2019

BPC-5080 Spec.

- Intel 8th Gen Core i Coffeelake-S (35W CPU), i7-8700T, i5-8500T, i3-8100TE
- **2 Slot DDR4 2133 SODIMM to 32GB**
- Display output:
 - **2 DP, 1 VGA**
- I/O interface:
 - 2 GLAN (Intel i219LM, Intel i210AT)
 - 8 USB (4 USB 3.1 , 4 USB 2.0)
 - 2 COM ports (2 RS-232/422/485)
 - Line out, Mic In,
- miniPCIe: 1 Full size
- M.2: 2 M.2
- **Storage : 2 SATA HDD/SSD**
- DC 12/ 19~28V Input
- Operation Temperature: -20~55 °C
- OS Support: Windows 10
- Dimension: W238 x D245 x H61mm



BPC-5070 Spec.

- Intel 6th Gen Core i Skylake-S (35W CPU), i7-6700TE, i5-6500TE, i3-6100TE
- **2 Slot DDR4 2133 SODIMM to 32GB**
- Display output:
 - **3 HDMI 1.4b, VGA(Optional)**
- I/O interface:
 - 2 GLAN (Intel i219LM, Intel i210AT)
 - 4 USB 3.0 , 4 USB 2.0
 - 2 COM ports (2 RS-232/422/485)
 - Line out, Mic In,
- miniPCIe: 1 Full size
- **Storage : 2 SATA HDD/SSD (RAID 0/1 SUPPORT)**
- DC 12~24V Input
- Operation Temperature: -20~45 °C
- OS Support: Windows 10/8.1/7
- Dimension: W238 x D245 x H61mm



BPC-MXM70 Spec.

Ultra Compact AI Computer, Support MXM module

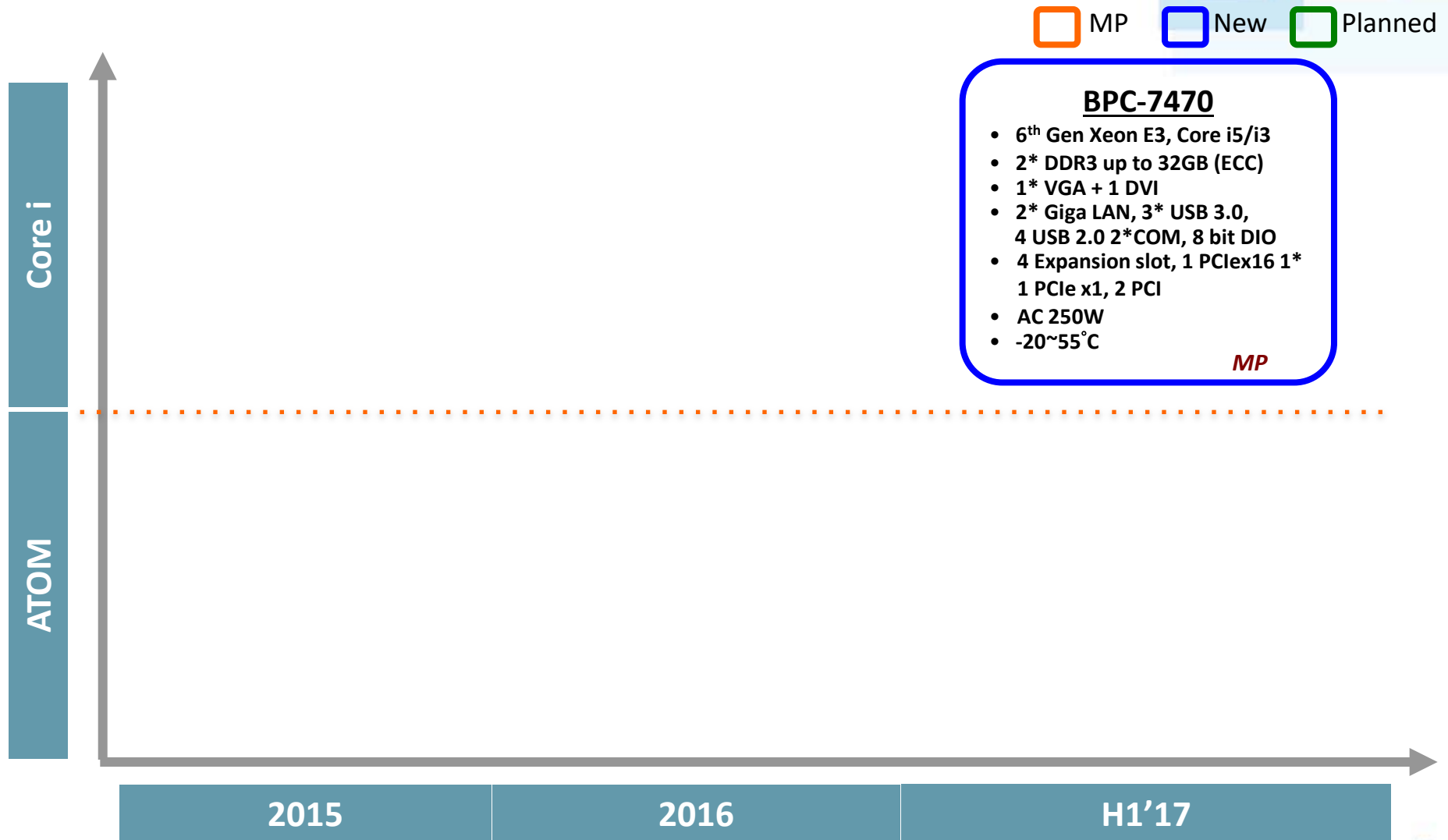
- Intel 7th Gen Core i KabyLake-S (65W CPU), i7-7700
- 2 Slot DDR4 2400 SODIMM to 32GB
- Display output:
 - 4~5 Display Port
- **Support MXM Graphic Model, up to nVidia GTX1080 / Quadro P100**
- I/O interface:
 - 2 GLAN (Intel i219V, Intel i210)
 - 4 USB 3.0
 - 2 COM ports (2 RS-232)
 - Line out, Mic In
- Expansion Slot: 1x M.2 M Key and 1x E Key
- **Support Camera Link (Base Mode, MDR Connector)**
- DC 19V Input
- Operation Temperature: 0~40 °C
- OS Support: Windows 10
- Dimension: W250 x D200 x H99.1mm





Embedded Box PC – 7000 Series
Expandable Embedded Box PCs

Expandable Embedded Box PC – 7000 Series Product Roadmap



BPC-7470 Spec.

Server Grade Expandable Box PC

- Intel Skylake LGA1151 CPU, **E3-1200v5**, i3 (C236), i7/i5 (Q170)
- 2 Slot DDR4 2133 SODIMM up to 32GB (**ECC**)
- Display output: VGA port, DVI-D (Option)
- I/O interface:
 - 2 GLAN (Intel® I219LM + I210AT)
 - 4 COM ports (2 RS-232/422/485, 2x RS-232)
 - 5 USB 3.0
 - PS/2
- Support Swppable 2 SATA III 2.5" HDD, Support RAID 0/1
- Expansion slots
 - 1 PCIe x8, 2 PCIe x4, 1 PCIe x1
 - 1 PCIe x16, 3 PCI
- Power Input
 - 250W ATX AC Power Input
- Operation Temperature: -20~55°C
- Dimension: W 183mm H 236.4mm D 238.7mm



A 3D puzzle piece with the word "Arestech" on it, set against a background of other puzzle pieces. The puzzle piece is blue and has a glowing white light emanating from its center. The background is a grid of blue puzzle pieces, with the central piece being the focus.

Arestech

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Embedded Applications***