



2026 IPC Series Catalog

Future-Proof Innovation at Industrial Scale

OSM/ MCU

Single Board Computers

Rugged Box PCs

Industrial HMI



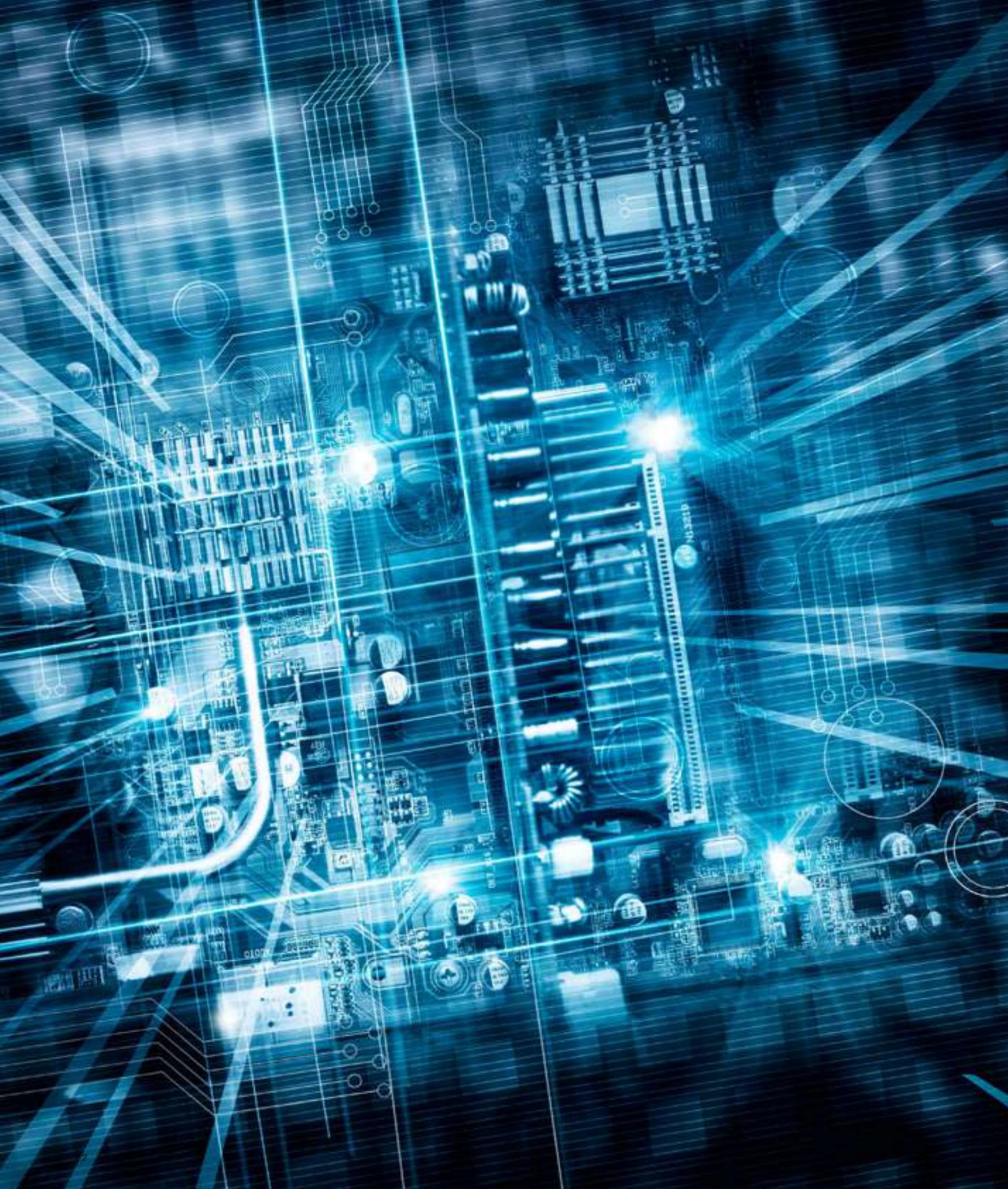


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Leading the Way in Global Transformation

Qbic Technology stands at the forefront of intelligent space transformation, delivering high-performance, energy-efficient ARM-based solutions that revolutionize how people interact with their environments. Our expertise spans mechanical and software engineering, Android security system design, and industrial design, enabling us to excel in developing cutting-edge technology for smart offices, retail spaces, educational institutions, and residential automation.

From Rugged Box PCs, Industrial HMIs, Industrial Single Board Computers, and OSM platforms to award-winning space management solutions, Qbic provides comprehensive offerings protected by our Fortress Cyber Security Award-winning Fortify+ solution.

As a registered NXP partner with extensive support for MediaTek platforms, and trusted by Fortune 500 companies, we ensure rapid time-to-market while maintaining exceptional quality across our portfolio, backed by our Excellence in Customer Service Award-winning support team.



Qbic Products Present Across Five Continents:

- 📍 Asia Pacific
- 📍 Latin America
- 📍 North America
- 📍 Europe
- 📍 Middle East & Africa

Building Trust—One Customer at a Time

We have designed and built advanced devices for a diverse range of Fortune 500 companies including Intel, Microsoft, Sony, Disney, Airbus, McDonald's, Expedia, BNP Paribas, BP, and Atlantis Dubai among others. Globally branded companies have tried, tested, and trusted the quality of Qbic devices.



Charlie Zammit
NowSignage
Technical Product Manager

“ Working with Qbic's Android-based digital signage players allows NowSignage to deliver unmatched feature accessibility and security across all deployments. Their award-winning approach to security and the ease of integration with our systems makes Qbic an ideal partner for us.



Brian Hollenbach
PADS4
COO

“ With PADS4, we've had some amazing partnership with our hardware vendors, and one that's specifically important to us is Qbic. We've been very happy working with Qbic as the integration has been incredibly seamless. The support has been fantastic and amazing, and of course, the availability of the hardware for our end customers has never been an issue. So we've been very proud to partner with a company such as Qbic, where just a panel such of this quality has been amazing, and we've really been enjoying the relationship we've fostered with the team.



The Foundation of Qbic Industrial Platforms

At Qbic, we thrive on adaptability, delivering industry-leading solutions that meet and exceed customer expectations. Our agile approach ensures we stay ahead in hardware, software, operations, and customer service in our key areas of expertise.



Hardware Excellence

Our hardware design excellence has consistently earned international acclaim, validated by multiple iF Design Awards. This legacy of recognition demonstrates our mastery in creating sophisticated solutions that anticipate and exceed user needs across industries, as shown with our recent award-winning TDD-1000 BookBuddy Connect, and industry-first innovations in display and hardware technology.

Direct Bonded Displays: Eliminates air gaps for improved clarity, durability, and touch responsiveness.

Anti-Microbial Glass: Pioneering use of Corning® Gorilla® Glass with anti-microbial properties for hygienic surfaces in high-traffic areas like meeting rooms and healthcare facilities.

Independent Watchdog: Industry-leading implementation of watchdog timers for proactive performance monitoring and automatic recovery, ensuring uninterrupted operation.



Software Leadership

Specializing in Android OS and Linux, our software capabilities are built with security and business continuity in mind, providing the robust protection modern enterprises require in today's digital landscape. We also prioritize continuous improvement, with a clear roadmap for regular Android OS updates and security enhancements designed to future-proof our customers' investments and safeguard their operations.

Leading Android Adoption: Early adoption of the latest Android OS (14/15) for cutting-edge features, performance, and application compatibility.

Security First: By implementing timely security patches and advanced protective features, we safeguard customer data and device integrity, maintaining compliance with global cybersecurity standards.

Cybersecurity Awards: Our commitment to security has earned us the prestigious Fortress Cybersecurity Award, validating our ability to deliver devices with fortified defenses against evolving cyber threats.



Operational Agility

Our operational framework sets new industry standards through advanced inventory management and optimized manufacturing processes. With established global distribution partnerships, we ensure consistent product availability and minimized lead times worldwide. This efficiency enables partners to deploy solutions rapidly without compromising our rigorous quality standards.

Global Distribution Network: Partnerships with leading distributors ensure reliable product availability and local support across major markets.

Quality Assurance: Comprehensive testing protocols with over 400 software test items and 130 DQA test items ensure exceptional reliability.

Strategic Production Control: Sophisticated inventory management and streamlined manufacturing reduce lead times for faster market deployment.



Customer Success

Our Excellence in Customer Service Award validates our unwavering commitment to customer success. We've built a responsive support infrastructure that combines technical expertise with deep industry knowledge, ensuring our partners receive swift, effective solutions tailored to their unique challenges. This customer-first approach has established Qbic as a trusted long-term partner for businesses worldwide.

24-Business Hour Response: Guaranteed rapid response time for technical and operational queries, maximizing system uptime.

Comprehensive Support: Expert consultation, tailored Design Manufacturing Services, and integration support across hardware and software solutions-now backed by a 2-year warranty on selected devices.

Partnership Approach: End-to-end support from initial planning through deployment and ongoing optimization, ensuring sustained success.

Integrated Platform Architecture

Qbic industrial platforms combine hardware, system software, and lifecycle services into a unified architecture designed for long-term deployment. This integrated approach enables partners and system integrators to accelerate development while maintaining platform stability, security, and scalability. Fortify+ provides end-to-end protection across the entire platform.

Software Architecture



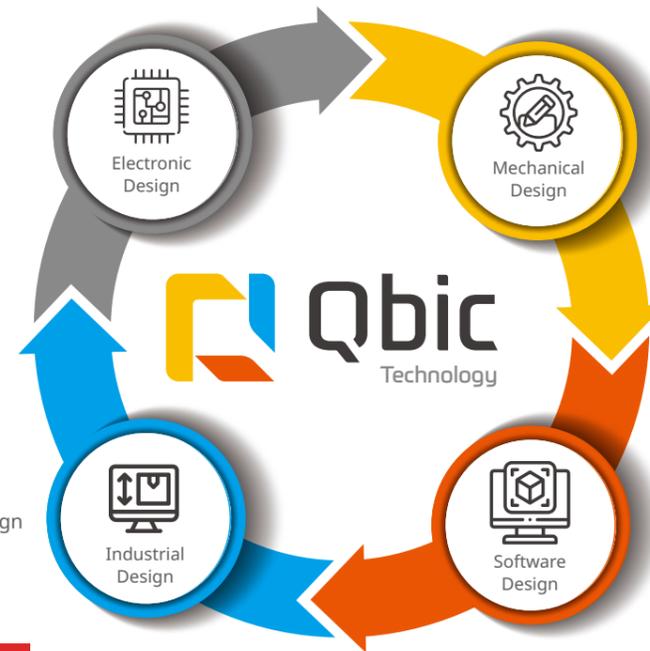
Full In-House Design & Engineering Team

Qbic takes care of all design and engineering. Our engineers have expertise in a diverse range of disciplines, including IoT, AIoT, and Edge computing applications in respect of which we have created a one-stop service model that integrates embedded motherboards, systems, software, as well as customized embedded design elements.

Qbic engineers have designed industrial devices that have garnered interest from globally recognized companies and governmental organizations. Technologies such as low-power ARM-based processors to minimize energy usage and antimicrobial displays demonstrate Qbic's commitment to reliability and long-term deployment environments. Additionally, Qbic ensures the right technologies are available for the right applications, such as KNX compatibility, hardened enterprise security, Wi-Fi 6, and Bluetooth connectivity, among others.

Be confident that our experienced design & engineering team will deliver a premium quality device with a transparent experience.

Electronic Design
Effectively designed electronic layouts and schematics



Mechanical Design
Tailor-made from form, feature to function

Industrial Design
Award-winning Industrial Design team embraces the essence of aesthetics

Software Design
Customized firmware and API tools supports speedy deployment



Driving Innovation Through Trusted Global Partnerships

We understand that our clients want reliable and easy-to-use technology. That's why we partner selectively with technology, distribution, and software leaders to bring diverse expertise to our ecosystem.

Technology Partners

We collaborate with leading technology innovators to integrate the latest advancements into our devices, ensuring access to cutting-edge components.



Channel Partners

Our global network of channel partners ensures seamless product availability, efficient logistics, and localized market expertise for customers worldwide.

[Discover our channel partners here.](#)

Software Partners

Combining Qbic hardware with the expertise of our software partners, we deliver powerful integrated solutions designed to elevate various deployments, from workplace experiences to digital signage and beyond.

[Discover our software partners here.](#)

NXP Independent Design House



Qbic is proud to be an **Independent Design House** as a registered partner of NXP.

Our expertise with NXP products ensures minimal disruptions to your project's deployment.



- Support**
Range of support, from pre-sales to design and technical support
- Mastery**
Deep knowledge of NXP technological ecosystem
- Agile**
Accelerated time-to-market
- Capability**
NXP-approved product design and production capabilities
- Unique**
NXP-approved product uniqueness and differentiating expertise

Strength Meets Sophistication

Transform your workspace with devices engineered for excellence. From bustling industrial environments to remote locations, our comprehensively tested solutions combine validated durability with sophisticated design. When reliability matters most, our award-winning devices deliver performance you can count on.

Why choose our devices:

- ✓ **Uncompromising Durability:** Built to last with high-quality components and rigorous testing for long-lasting performance in demanding environments.
- ✓ **Rock-Solid Reliability:** Count on consistent, dependable performance even in challenging conditions.
- ✓ **Invest in Longevity:** Choose devices built for long-term use, minimizing upgrades and operational disruptions

Built to Survive



Precision Manufacturing, Certified for Your Success

Qbic's manufacturing processes combine precise engineering with an industrial design sensibility rooted in deep experience that has already earned us several iF Design awards. We practice our craft in a certified manufacturing plant under the auspices of a number of ISO certifications. Our dedicated service team, backed by a team of in-house development engineers, will take your project from scratch through to completion and beyond with our comprehensive after-sales technical support program.

Certifications

Qbic's factories have achieved the following ISO 14001:2015 (Environmental Management System), ISO 9001:2015 (Quality Management), and ISO/EC 27001:2022 (Information Security Management Systems). We have a track record for adhering to the highest standards and making sure the result we aim for is exactly the result our client wants to see.



ISO 9001 : 2015 ISO 14001 : 2015

ISO/EC 27001:2022

Your Success, Our Commitment

As winner of the 2023 Excellence in Customer Service Award presented by the Business Intelligence Group,

Qbic's customer-centric culture has been recognized for its dedication to client satisfaction, which is rooted in Qbic's core values and permeates every aspect of the company.

- ✔ Consultation
- ✔ Customization
- ✔ Seamless Integration
- ✔ End-to-End Care

By consistently exceeding customer expectations, Qbic has built long-lasting relationships, earned the trust of its diverse clientele, and reinforced its reputation as a company that genuinely cares about delivering the best possible outcomes for all parties involved.



Avi Tchiprout
Door Tablet
Founder and CTO

Working with Qbic is a great experience. We always, always get fast responses to all of our requirements, whether it is, technical or commercial. I would say, all the technical front with working with Qbic is fantastic.



Building the Future With Software

Our solutions leverage and support key technologies from industry leaders such as NXP and MediaTek (MTK), enabling us to deliver advanced capabilities. We understand that our clients want reliable and easy-to-use technology. That's why we are very selective about the partners we choose. We have also been recognized for our excellence in developing technologically based solutions and services which have driven customer success.

Reliable Software System

Rigorous Tests Conducted.
 Inspections: 2x Sampling, 1x Full.
 Software Tests: 6 Categories,
 400+ Items.
 DQA: 6 Types, 130+ Items



OS Upgrades

Rigorously offering timely Android OS versions and patch updates

Long-Term System Component Support

Essential system components are maintained and upgraded by Qbic

Fortify+

Our award winning security features protect the system, information, and access simultaneously



QDK (Quick Development Kit)

Easy-to-use software development kit supporting cross-platform and web app development

Customers Proprietary System

Supporting customers build and timely deploy proprietary hardware and software systems

Leverage Our Dual Platform Integration Expertise

We help partners create innovative, reliable solutions through our expertise in Android and Linux platforms. From development to deployment, our comprehensive support ensures every project is built on a stable and scalable foundation.



Android Excellence

Benefit from a clear Android OS roadmap, guaranteeing long-term support, seamless upgrades, and enhanced security and device management through Qbic Fortify+.



Linux Expertise

Custom Linux kernel and driver development, along with embedded system integration, provides the robust Linux foundation required for demanding applications like smart access, ensuring optimized performance and resource management.

Qbic's meticulously curated ecosystem establishes powerful synergies with leading software providers across space management, digital signage content management platforms, and more. We build the hardware foundation that empowers our partners' solutions to perform at their peak potential, ensuring seamless interoperability through rigorous integration standards.



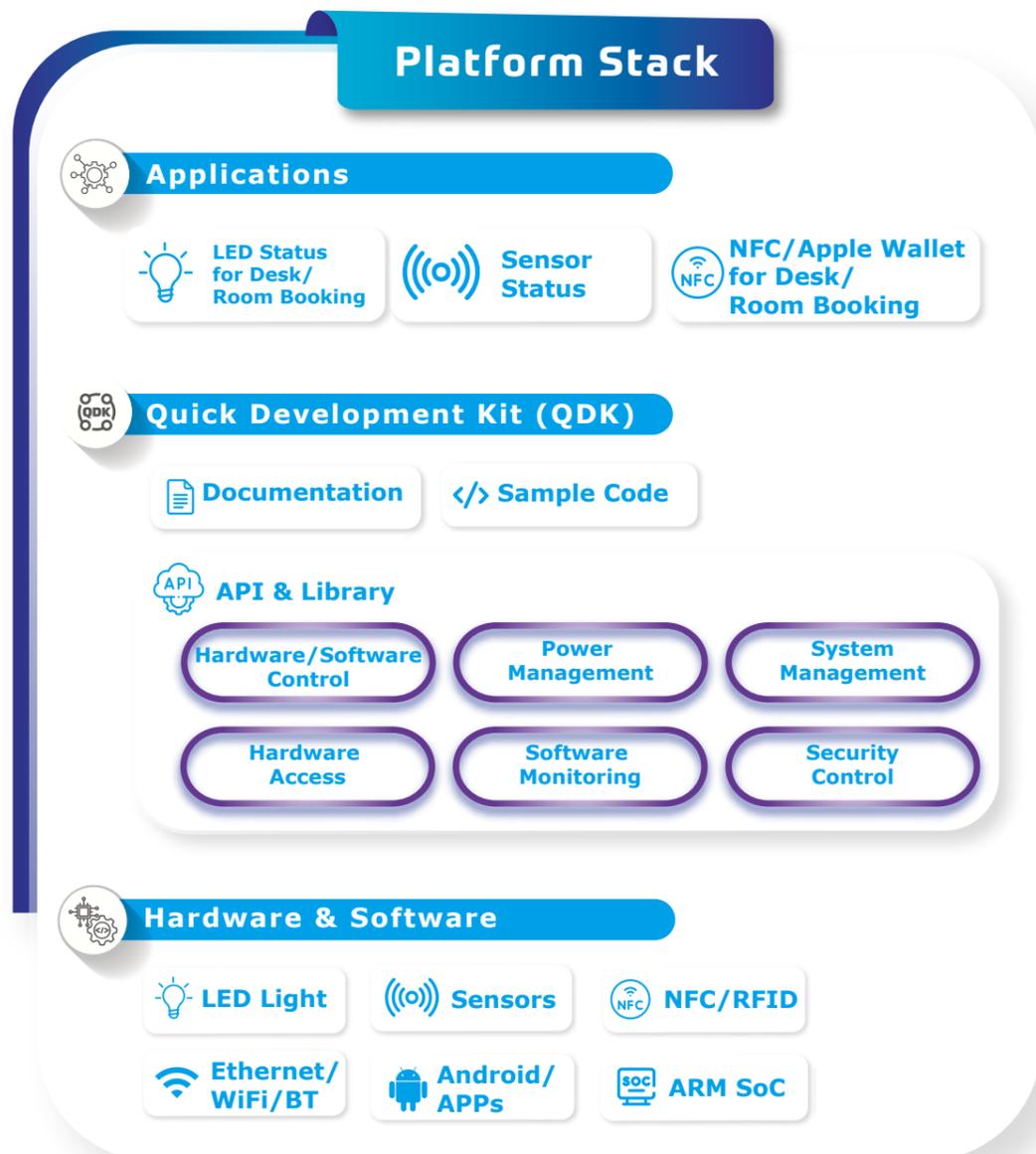
Will White
 Appspace
 Director of Technical
 Workspace Experience

The integration layer between Appspace and the Qbic BookBuddy is incredibly solid. It was a super easy integration to get up and running, which is always great from our perspective. And it's a super secure device because they're doing generational updates on Android to make sure you're not falling behind on security patches and so on.

Unlock Seamless Integration for Faster Deployment

The Qbic Quick Development Kit (QDK) and API provide developers with the resources they need to create cutting-edge space management solutions. Our focus on interoperability and extensibility ensures that your applications are not only powerful but also future-proof.

- ✓ **Unified Development Environment:** Develop once and deploy across the Qbic hardware ecosystem.
- ✓ **Rapid Integration:** Pre-built components and comprehensive documentation accelerate your development cycle.
- ✓ **Enhanced Interoperability:** Leverage standard protocols and our robust API to seamlessly integrate with a wide range of systems and devices.
- ✓ **Maximum Extensibility:** The modular design of our QDK and API allows you to easily add new features and customize your solutions.

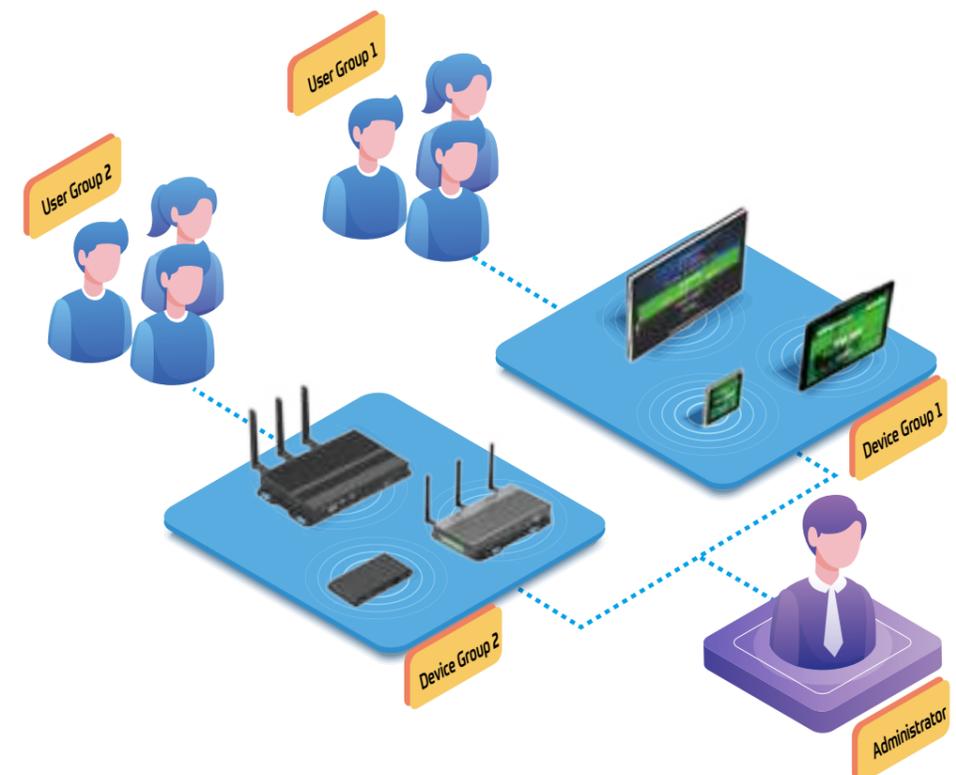


Secure and Manage Your Qbic Devices, Anywhere

Take full control of your Qbic devices with a deployment strategy tailored to your infrastructure. We offer two powerful paths to manage your network:

- **For Cloud Flexibility:** Our ArgusControl RDM now adapts to your scale with flexible service tiers. Start with the Free Basic service (standard on all Qbic devices running Android 10+) for essential management, or upgrade to the Paid Advanced service for enterprise-grade capacity.
 - **For Local Security:** Our on-premise Remote Control Configuration (RCC) remains the dedicated solution for secured environments, ensuring all management traffic stays within your local network.
- Both solutions offer foundational features to keep your operations running smoothly:

- Unified Device Management:** Centralized control of all connected devices for efficient management and monitoring.
- Device Diagnostics:** Tools for identifying and resolving hardware/software issues remotely.
- Real-Time Monitoring:** Live status updates and usage analytics for all connected devices.
- Resource Usage Report:** Utilize device usage analytics to optimize resource allocation and drive informed decision-making.



The Rock-Solid Security Trinity

Qbic's enterprise security framework rests on three foundational pillars: Security Design, Security Architecture, and Security Services. From product inception, our Security Design Policy ensures protection is integrated into every development phase, not added as an afterthought. Our award-winning Fortify+ platform implements multiple layers of defense to prevent unauthorized access and system modifications through advanced access controls and tamper-resistant architecture.



Security Design

Hardware Security • Code Review & Security Features Test • Penetration/Security Tests

Qbic Technology not only integrates firmware and software security features into devices. The Qbic Security Design Policy is also imported at the beginning of the product's lifecycle.



Security Architecture

Fortify+ Premium / Standard: Qbic Security Features Set

In device security, the operating environment, information completeness, and access permission are critical areas hardened by Qbic's award-winning Fortify+ security. Therefore, Qbic designs and develops various security features to simultaneously ensure hardened security in operation, information, and access.



Security Service

Customized Security Features • Security Maintenance

The significant feature of IPC and IoT technologies is the diversity of applications and user scenarios. This situation leads to different security requirements. Qbic understands this need and diligently ensures that organizational security requirements are met.

Award-Winning Enterprise Security

As a winner of the Fortress Cyber Security Award in Data Protection, Qbic Fortify+ delivers proven enterprise-grade security through nine integrated fortifications. Our comprehensive approach protects your data, regulates access, and secures operating environments - providing the robust security infrastructure modern organizations demand.



Security On Your Terms: Standard and Premium Protection

Qbic's Fortify+ offers two comprehensive security tiers - Standard and Premium - designed to critical deployments in corporate boardrooms and government facilities, our tiered approach ensures organizations receive the precise level of protection they need.

Fortify+ Standard and Premium

		Fortify+ Standard	Fortify+ Premium 
Access Protection	Secure Connection	✓	✓
	Secure Port	✓	✓
	Admin Authentication	✓	✓
Data Protection	Data Encryption	✓	✓
	Permission Management	✓	✓
	Privacy Protection	✓	✓
Environment Protection	Security Update	✓	✓
	Secure Boot	-	✓
	Device Integrity	-	✓
Device Availability	1. TD Series 2. Select Digital Signage Players	1. Customizable with TD Series 2. Luminen series	

Achieve Excellence Through Tailored Solutions

For decades, companies of all sizes have relied on our Design and Manufacturing Services (DMS) to solve their unique project challenges. We offer comprehensive expertise in designing and deploying a variety of hardware solutions, including Smart Panel PCs, purpose-built boards for advanced edge AI applications, ARM & x86 Digital Signage Players, embedded boards, and kiosks. Our experts work to meet your specific technical and financial needs, ensuring seamless deployment and delivering efficient, cost-effective solutions.

- **Dependable Quality**

Commercial or industrial grade standards with uncompromised quality that are trusted by Fortune 500.

- **Design, Engineering and Aesthetics**

Offering award-winning industrial design (ID), benefiting turnkey projects.

- **Operating Systems**

Qbic offers diverse OS support for Android, Linux

- **Platform Flexibility**

Experienced across multiple platforms ranging from NXP, NVIDIA, MediaTek, Rockchip, AMD, Linux, and more.

- **Extensive Support**

Unwavering support to your project's success by our robust team of in-house development engineers.

- **Production Capacity**

ISO-certified manufacturing plants are equipped to meet global certifications.

- **A Tier 1 Chipset Partner**

Dedicated resource support across major chipset suppliers, ensuring timely support and quality of service.

- **Leading ARM Design and Development Expertise**

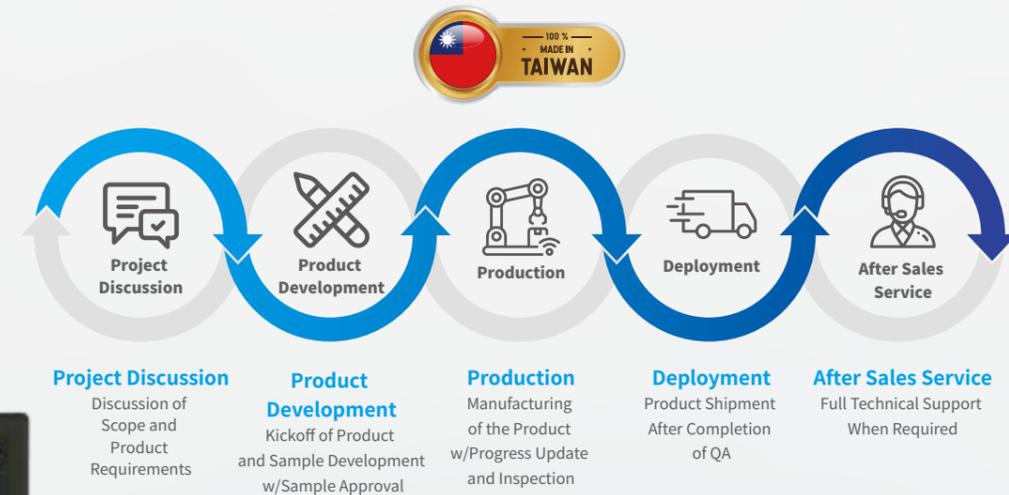
Extensive range of ARM-based design and development experience.

Tightly Integrated Design & Manufacturing Service Process

Qbic's frictionless development process takes companies new to ODM from scratch right to the end of their project—and a good way beyond. And on those occasions when the progress of your project may be hard to see, rest assured that we will be transparent in our communications with you in regard to every aspect of the process.

We begin by determining a project's scope and requirements followed by product sample development which leads into the manufacturing and inspection phase. Following QA, the product is deployed which activates the technical support phase.

A frictionless and transparent development process for your unique project.



Industry Solutions

Qbic designs and manufactures applications for these key target markets:



Industrial Automation

Automation environments demand reliable computing systems capable of supporting real-time operations and long lifecycle deployments. Purpose-built Rugged Box PCs, Industrial HMIs, and embedded systems power applications such as AI-powered inspection, packaging automation, condition monitoring, and energy management.

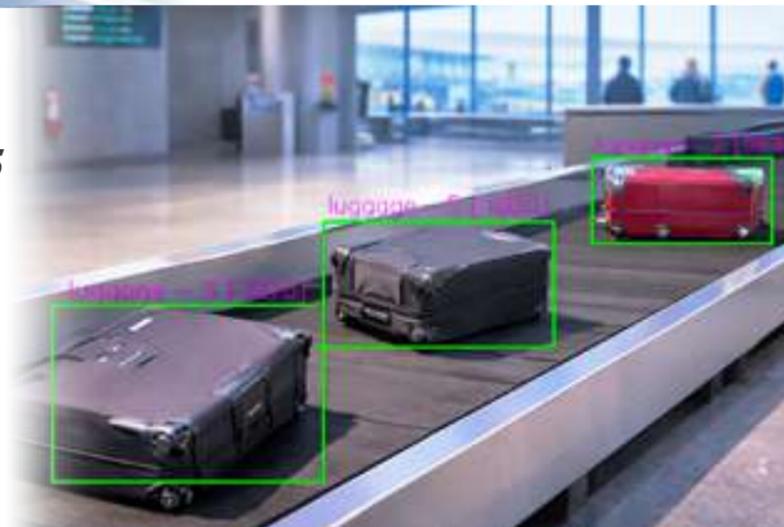


Food & Beverage Automation

Maintaining product quality and regulatory compliance requires advanced digital systems throughout the production process. Applications range from automated inspection and product traceability to environmental monitoring and cold chain management across processing and distribution operations.

Transportation & Logistics

Efficient movement of goods relies on intelligent systems that keep assets and operations coordinated. From baggage tracking and parcel sorting to fleet diagnostics and facility traffic flow management, Qbic devices help keep modern logistics networks running smoothly.



Retail & Smart Building

Connected technologies are transforming commercial environments by improving operational visibility and user experiences. Digital infrastructure enables capabilities such as facility monitoring, digital signage, retail automation, and intelligent room scheduling.



Healthcare & Pharmaceuticals

Critical healthcare and pharmaceutical operations require secure computing infrastructure that supports precise workflows and strict regulatory standards. These environments rely on systems that support laboratory monitoring, telehealth stations, diagnostic imaging control, and cleanroom compliance management.

COMING SOON

OSM/ MCU



Model Name	RT-0360	QCB-1000 + QOM-0520	QCB-1000 + QOM-0720	
SOC platform	NXP i.MX RT1172DVMAB	MTK Genio 520	MTK Genio 720	
OS Support	RTOS	Android 15; Linux Yocto	Android 15; Linux Yocto	
System	Processor	ARM Cortex -M7 core up to 800 MHz Cortex-M4 core up to 400 MHz	ARM 2 x Cortex-A78 2.0-2.2GHz ARM 6 x Cortex-A55 1.8-2.0GHz	ARM 2 x Cortex-A78 2.4-2.6GHz ARM 6 x Cortex-A55 2.0GHz
	GPU	NA	Arm Mali-G57 MC2 up to 880MHz	Arm Mali-G57 MC2, 1.1GHz
	APU	NA	10 TOPS	10 TOPS
	Memory	SDRAM (16bit+166MHz), 64MB	LPDDR5 6400MT/s, 8GB	LPDDR5 6400MT/s, 8GB
	Storage	32MB Flash Memory (8 bit+133MHz)	128GB UFS	128GB UFS
	VDEC	NA	4K60, HEVC/H.264	H.264/H.265/VP9 (4K60) MPEG4/VP8 (FHD60)
	VENC	NA	4K30, HEVC/H.264	4K30, HEVC/H.264
	Audio DSP	NA	N/A	N/A
Ethernet	NA	10/100/1000M	10/100/1000M	
WLAN Connectivity	WiFi 802.11b/g/n; 2.4GHz/5GHz Bluetooth 4.2	1 x M.2 Key E Connector (USB 2.0, PCIe)	1 x M.2 Key E Connector (USB 2.0, PCIe)	
	x2 I-PEX conn. for wifi/BT antenna	Support WiFi 6, 802.11 a/b/g/n/ac/ax + BT 5.2	Support WiFi 6, 802.11 a/b/g/n/ac/ax + BT 5.2	
PoE	NA	NA	NA	
Display connection	LVDS	NA	NA	
	eDP	NA	2 x 20P/P1.25 (44Pin)	
	MIPI	24pin (2*12 Conn.)	1 x eDP40P/P0.5/IPEX	
Connection with Peripheral function moduels	I2C connector	1 X 4pin wafer (I2C) for LED bar	4-lane MIPI DSI (Shared with LVDS conn.)	
	I2C for Touch panel	2 x 5 Conn. 10pin	NA	
	SPI bus	NA	in LVDS connector	
	UART RX/TX	NA	1 (4x2P 2.54mm Pin Header)	
	Audio output for Speaker	1 x 4pin wafer (output 0.8 Watt)	1 (4x2P 2.54mm Pin Header)	
	I2S connector	NA	2 (3P 1.25mm wafer)	
	Microphone connector	2 X 4pin wafer (DMIC)	Headphone out (2P/3P 1.25mm wafer)	
	Video Input for Camera	NA	1(2x11P 2.54mm Pin Header)	
	NFC reader	1 x (I2C/WB_8P_P0.6mm) for external module	Mic in (2P/3P 1.25mm wafer)	
	NFC reader	NA	2 x 4 lane MIPI CSI (FPC 22Pin /P0.5)	
I/O Interface	GPIO for power/system button	NA	NA	
	USB Port	1 x Micro USB (OTG) 1X USB type C	17, 2 x (2x5P 2mm Pin Header)	17, 2 x (2x5P 2mm Pin Header)
	Ethernet	NA	1x USB type C (with alt.mode) 2x USB Type A	1x USB type C (with alt.mode) 2x USB Type A
	KNX	NA	1 x RJ45	1 x RJ45
	COM	X1 RS485 (half duplex)	NA	NA
	CAN	NA	1 x RS232/422/485 by DB9 1 x RS232/422/485 by 2x5P 2mm Pin Header	1 x RS232/422/485 by DB9 1 x RS232/422/485 by 2x5P 2mm Pin Header
	M.2	NA	x2 (3P 1.25mm wafer)	x2 (3P 1.25mm wafer)
	Analog input port	NA	1 x M.2 Key E Connector (USB 2.0, PCIe) 1 x M.2 Key B Connector (USB 3.0)	1 x M.2 Key E Connector (USB 2.0, PCIe) 1 x M.2 Key B Connector (USB 3.0)
	Digital input port	1 x 2 pin Thermal Block	NA	NA
	Digital Output port	1 x 3 pin Thermal Block (with Relay)	NA	NA
	Analog Stereo out	NA	NA	NA
	Expansion storage	NA	1 x Micro SD Card Slot or 1 x 64GB eMMC storage (optional)	1 x Micro SD Card Slot or 1 x 64GB eMMC storage (optional)
	DC input connector	USB type C (5V/2A)	1x DC Jack	1x DC Jack
	Power Requirement	USB type C for Power-in, 5V/2A	1x DC-in, 12V/3A	1x DC-in, 12V/3A
	Environment	Operating Temp.& Humidity	0-45degrees, 5% to 85%	-20-70°C 95% relative humidity, non-condensing
Storage Temp.& Humidity		-20-65degrees, 5% to 90%	-30-70°C 95% relative humidity, non-condensing	-30-70°C 95% relative humidity, non-condensing
Mechanism	Dimension	170mm (L) *72.8mm (W) Top side <9.1mm ; Bottom side <2.7mm	165 mm (L) x 115 mm (W)	165 mm (L) x 115 mm (W)
Display support	Panel Size	3.6 inches, on-cell touch	8 inches (Default) via MIPI-DSI	15.7 inches via eDP
	Panel Orientation	Landscape	Landscape	Landscape
	Display Resolution	480x 480	1280x 800	1920x 1080
	Birghtness (minimal)	450 cd/m2 (with touch)	300 cd/m2 (with touch)	350 cd/m2 (with touch)
	Contrast Ratio	1000:1	1000:1	1000:1
	Touch	5 points, multi-touch (PCAP)	5 points, multi-touch (PCAP)	10 points, multi-touch (PCAP)

Single Board Computers



Model Name	SBC-0851N	SBC-0400N	SBC-1070N	HC-1070M
SOC platform	NXP i.MX8M Plus	NXP i.MX 8M Nano	NXP i.MX8M Plus	MTK Genio 510
OS Support	Android 11 / 13 / 15; Linux Yocto	Android 13 / 15; Linux Yocto	Android 11 / 13 / 15; Linux Yocto	Android 13 / 15; Linux Yocto
System	Processor	ARM Quad-core Cortex- 4*A53.	ARM Quad-core Cortex- 4*A53	ARM Quad-core Cortex- 4*A53.
	GPU	GC7000UL/GC520L (2D)	GC7000UL	GC7000UL/GC520L (2D)
	APU	2.3 TOPS	NA	2.3 TOPS
	Memory	LPDDR4, 4GB	LPDDR4, 2GB	LPDDR4, 4GB
	Storage	32GB eMMC	16GB eMMC	32GB eMMC
	VDEC	1080p60, HEVC/H.264/VP9/VP8	1080p60, HEVC/H.265/VP9/VP8	1080p60, HEVC/H.264/VP9/VP8
	VENC	1080p60 H.265/ H.264	1080p30 H.264/VP8	1080p60 H.265/H.264
	Audio DSP	Hi-Fi4	NA	HiFi-4
Ethernet	10/100/1000M	10/100/1000M	10/100/1000M	10/100/1000M
WLAN Connectivity	On-board WiFi 6, 802.11 a/b/g/n/ac/ax + BT 5.0	On-board WiFi 5, 802.11 a/b/g/n/ac/BT 5.0	On-board WiFi 6, 802.11 a/b/g/n/ac/ax + BT 5.0	On-board WiFi 6, 802.11 a/b/g/n/ac/ax + BT 5.2
PoE	2 x I-PEX conn. for WiFi/BT antenna	1 x I-PEX conn. for WiFi/BT antenna	2 x I-PEX conn. for WiFi/BT antenna	x2 I-PEX conn. for wifi antenna/ x1 I-PEX conn. for BT antenna
Display connection	PoE 802.3at	NA	NA	PoE 802.3at
	LVDS	NA	NA	NA
	eDP	NA	NA	NA
Connection with Peripheral function moduels	MIPI	1X 30pin (FPC conn.)	1X 30pin (FPC conn.)	1 X 41pin (FPC conn.)
	I2C connector	in Camera connector for ALS sensor	1X (FPC-10P-P0.5) for ALS sensor	1X (FPC-10P-P0.5) for ALS sensor
	I2C for Touch panel	in MIPI connector	in MIPI connector	in MIPI connector
	SPI bus	4pin (SPI) X2 (Left/Right) for LED Bar	4pin (SPI) X2 (Left/Right) for LED Bar	4pin (SPI) X2 (Left/Right) for LED Bar
	UART RX/TX	4 pin (1.25p) x1 for Debug	4 pin (1.25p) x1 for Debug	4 pin (1.25p) x1 for Debug
	Audio output for Speaker	2pin(L/R) x 2 (1.5W (max) with 8 ohms)	1 x 3V, 65dB @ 10cm, 4kHz, output for Buzzer	2pin(L/R) x 2 (1.5W (max) with 8 ohms)
	I2S connector	NA	NA	NA
	Microphone connector	10pin (DF40B-10DS) X1 for DMIC	NA	4pin X1 for DMIC
	Video Input for Camera	(FPC-34P-P0.5) X 1, MIPI CSI-2 with I2C	NA	(24DS-0.8) X 1, MIPI CSI-2,
	NFC reader	8 pin connector X1 for external NFC module	1 x (WAFER-8P-0.6), I2C interface 1 x (FPC-10P-P0.5), USB interface	(FPC-4P- P0.5mm) X1 for antenna
	GPIO for power/system button	1X 4pin (2GPIO)	1 x 4pin (Download Key), 1 x 4pin (Reset Key)	1X 4pin (2GPIO)
I/O Interface	USB Port	1x Micro AB 1x USB Type C (OTG)	1 x Micro USB (ADB)	1x USB Type C (ADB) ; 1x USB Type A
	Ethernet	1x RJ45 connector with PoE 802.3at	NA	1x RJ45 connector with PoE 802.3at
	KNX	KNX bus connection block (Red/Black), Certified KNX Stack (System B)	NA	NA
	COM	NA	NA	NA
	CAN	NA	NA	NA
	M.2	NA	NA	NA
	Analog input port	X1 (2 pin TERMINAL BLOCK,)	NA	NA
	Digital input port	X1 (2 pin TERMINAL BLOCK,)	NA	NA
	Digital Output port	NA	NA	NA
	Board to Board connector	NA	20 x 2pin, 1 x P0.5mm	NA
	Expansion storage	NA	NA	NA
	DC input connector	1X DC port 12~24V	5V, in Board to Board connector	1x DC Jack
	Power Requirement	1x PoE 802.3af & PoE 802.3at (compatible) 1x DC-in, 12V/1.5A ~ 24V/0.75A	NA	1x PoE 802.3af 1x DC-in, 12V/2A
Environment	Operating Temp.& Humidity	0~45degrees, 5% to 85%	0~45degrees, 5% to 85%	0~45degrees, 5% to 85%
	Storage Temp.& Humidity	-20~65degrees, 5% to 90%	-10~60°C, 5% to 90%	-20~65degrees, 5% to 90%
Mechanism	Dimension	121mm (L) *89.5mm (W) Top side <29.89mm ; Bottom side <1.0mm	91.5mm (L) x 70mm (W) x 12.8mm (H) Top side <9mm ; Bottom side <2.7mm	170mm (L) *72.8mm (W) Top side <9mm ; Bottom side <2.7mm
	Panel Size	8 inches	3.6 inches, on-ce+G51:G56ll touch	10.1 inches
Display support	Panel Orientation	Landscape	Landscape	Landscape
	Display Resolution	1280x 800	480x 480	1920x 1200
	Birghtness (minimal)	300 cd/m2 (with touch)	450 cd/m2 (with touch)	350 cd/m2 (with touch)
	Contrast Ratio	1000:1	1000:1	1000:1
	Touch	5 points, multi-touch (PCAP)	5 points, multi-touch (PCAP)	10 points, multi-touch (PCAP)



Model Name	BXP-100	FHD-200	BXP-300	BXP-320	BXP-321	BXP-350	
Processor	ARM Quad-Core Cortex A53, 1.5GHz	ARM Quad-Core Cortex A53, 1.5GHz	ARM Quad-Core 1.8GHz	ARM Dual-Core A72 + Quad-Core A53, 64 bit 1.8GHz	ARM Dual-Core A72 + Quad-Core A53, 64 bit	ARM Quad-Core A76 + Quad-Core A55, 64-bit 2.4GHz	
Memory Storage	2GB / Onboard 32GB	2GB / Onboard 32GB	2GB / Onboard 32GB	4GB / Onboard 32GB	4GB / Onboard 32GB	8GB / Onboard 128GB	
Android OS	Android 10 / 12	Android 12	Android 10 /12	Android 10 /12 /Debian/Linux	Android 10 / 12	Android 12	
Watchdog	Support	Support	Support	Support	Support	Support (Watchdog only)	
Wireless Connectivity	WI-FI	802.11 a/b/g/n/ac	802.11 b/g/n	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac/ax (Wi-Fi 6)	
	Bluetooth / BLE	BLE Beacon (optional)	BLE Beacon (optional)	BLE Beacon (optional)	BLE Beacon (optional)	BLE Beacon	
Video & Audio	Video Output	1 x 4K*2K(3840*2160) @60fps, CEC	1 x 4K*2K(3840*2160) @60fps, CEC	1 x 3840*2160p @60fps, CEC	1 x 3840*2160p @60fps, CEC	1 x HDMI 2.1 (7680*4320 8K@60fp) 1 x HDMI 2.0 (4K@60fps)	
	Video input	NA	NA	NA	1 x HDMI 1.4b with HDCP, Up to 1920 x 1080 (@60 fps)	1 x HDMIC-IN (4K@60fps)	
	1 x SPDIF output	NA	NA	Yes	NA	NA	
	Audio	Auxiliary Audio out : USB output	Auxiliary Audio out : USB output	3.5mm Audio Jack : 1 (Speaker only)	1 x Earphone /Mic combo jack	1 x Earphone / Mic combo jack	1 x Microphone 1 x Speaker (4 TRRS)
Ethernet	1 x RJ45 (10/100 BASE-T)	1 x RJ45 (10/100 BASE-T)	1 x RJ45 Gigabit	1 x RJ45 Gigabit	1 x RJ45 Gigabit	1 x RJ45 Gigabit	
USB 2.0 Host	1 x USB 2.0 Type A, 1 x USB 3.0 Type A	1 x USB 2.0 Type A, 1 x USB 3.0 Type A	2 x USB 2.0 Type A	1 x USB 2.0 Type A	1 x USB 2.0 Type A	4 x USB 3.0	
USB Type C	NA	NA	NA	1 x USB 3.0 port	1 x USB 3.0 port	4 x USB 3.0 Type A	
USB OTG	1 x Micro USB for ADB	1 x Micro USB for ADB	1 x Micro USB for ADB	1 x Micro USB OTG	1 x Micro USB OTG	1 x USB-C for ADB/OTG	
SIM	NA	NA	NA	1 x M.2, Support 4G	1 x M.2, Support 4G	1 x M.2, Support 4G	
I/O	RS-232	NA	1 x RS-232 port (Male, DB-9)	Tx&Rx through 3.5mm phone jack	Tx&Rx through 3.5mm phone jack	1 x RS232 DB-9 connector (Tx & Rx)	
	GPIO	NA	NA	Phoenix type 12pin, 8 bit	Phoenix type 12pin, 8 bit	NA	
	External Antenna	NA	1 x 2dB antenna	1 x 2dB antenna	2 x 2dB Antenna / 1 x LTE Antenna (optional)	2 x 2dB Antenna / 1 x LTE Antenna (optional)	2 x 2dB Antenna / 1 x LTE Antenna (optional)
	Storage Expansion	1 x Micro SDXC slot, Max.:2TB	1 x Micro SDXC slot, Max.:2TB	1 x Micro SDHC slot	1 x Micro SD / M.2 B key (for SSD)	1 x Micro SD / M.2 B key (for SSD)	NA
Mounting	VESA mount kit, 75/75 (mm)	VESA mount kit, 75/75 (mm)	Easy wall mount	Easy wall mount	Easy wall mount	Easy wall mount	
Power Adapter	DC 5V/2A	DC 5V/2A	DC 12V/1.5A	DC 12V/3A	DC 12V/3A	DC 12V/3A	
Operating Temperature	0°C - 60°C	0°C - 60°C	-40 ~ 70°C	-40 ~ 70°C	-40 ~ 70°C	-10 ~ 60°C	

HMI Panel PCs



Model Name	Luminen 5	Luminen Pro 10	Luminen Pro 15	Helinx 8	
System	CPU Processor	NXP i.MX8M Plus Quad Core A53	MTK Genio 510 (MT8370), ARM Hexa-core Cortex- 2*A78/4*A55.	MTK Genio 510 (MT8370), ARM Hexa-core Cortex- 2*A78/4*A55.	
	Memory	LPDDR4, 4GB	LPDDR4, 4GB	LPDDR4, 4GB	
	Storage	32GB eMMC	32GB eMMC	32GB eMMC	32GB eMMC
	OS Support	Android 11 / 13 / 15; Linux Yocto	Android 13 /15; Linux Yocto	Android 13 /15; Linux Yocto	Android 13 / 15; Linux Yocto
Ethernet	10/100/1000M	10/100/1000M	10/100/1000M	10/100/1000M	
WLAN Connectivity	Wi-Fi 6, 802.11 a/b/g/n/ac/ax + BT 5.0	Wi-Fi 6, 802.11 a/b/g/n/ac/ax + BT 5.2	Wi-Fi 6, 802.11 a/b/g/n/ac/ax + BT 5.2	Wi-Fi 6, 802.11 a/b/g/n/ac/ax + BT 5.0	
PoE	PoE 802.3af	PoE 802.3at	PoE 802.3at	PoE 802.3at	
Display	Panel Size	5.5"	10.1"	15.6"	8"
	Panel Orientation	Portrait	Landscape	Landscape	Landscape
	Display Resolution	720x 1280	1920x 1200	1920x 1080	1280x 800
	Birghtness (minimal)	>300 cd/m2 (with touch)	>350 cd/m2 (with touch)	>350 cd/m2 (with touch)	>300 cd/m2 (with touch)
	Contrast Ratio	800:1	800:1	800:1	800:1
	Touch	5 points, multi-touch (PCAP)	multi-touch (PCAP), up tp 10 points	multi-touch (PCAP), up tp 10 points	5 points, multi-touch (PCAP)
Sensor	ALS+Prox.	ALS+Prox.	ALS+Prox.	ALS+Prox.	
LED Bar	2 (Left/Right)	2 (Left/Right)	2 (Left/Right)	2 (Left/Right)	
Speaker	built-in, 1x 1W	built-in, 2x 1W	built-in, 2x 1W	built-in, 2x 1W	
Microphone	built-in, 2	Built-in, 2	built-in, 2	built-in, 2	
Camera	N/A	1x 13MP, FF, 4K/15 fps	1x 13MP, FF, 4K/15 fps	1x 5MP, FF	
NFC reader	N/A	NFC peer to peer mode (13.56MHz)	NFC peer to peer mode (13.56MHz)	NFC peer to peer mode (13.56MHz) (Optional)	
I/O Interface	USB Port	1x Micro AB, OTG	1x USB Type C (OTG/ADB) ; 1x USB Type A (2.0)*	1x USB Type C (OTG/ADB) ; 1x USB Type A (2.0)	1x Micro USB 1x Type C USB3.0 (OTG)
	Ethernet	1x RJ45 connector with PoE 802.3af	1x RJ45 connector with PoE 802.3at	1x RJ45 connector with PoE 802.3at	1x RJ45 connector with PoE 802.3at
	Button (position)	1. Function Button (Top, flush button) 2. Rescue Button (Top, recessed button) 3. Reset Button (Back, recessed button)	1. Function Button (Top, flush button) 2. Rescue Button (Top, recessed button) 3. Reset Button (Back, recessed button)	1. Function Button (Top, flush button) 2. Rescue Button (Top, recessed button) 3. Reset Button (Back, recessed button)	1. Function Button (Top, flush button) 2. Rescue Button (Top, recessed button) 3. Reset Button (Back, recessed button)
	KNX	NA	NA	NA	KNX Bus connection block (Red/Black), Certified KNX Stack (System B)
	RS485	1 (half duplex)	1 (half duplex)	1 (half duplex)	NA
	Analog input port	NA	NA	NA	X1
	Digital input port	NA	NA	NA	X1
	DC Jack	1x DC Jack	1x DC Jack	1x DC Jack	1x DC terminal port
Power Requirement		1x PoE 802.3af 1x DC-in, 12V/1.5A	1x PoE 802.3at 1x DC-in, 12V/2A	1x PoE 802.3at 1x DC-in, 12V/3A	1x PoE 802.3at (compatible) 1x DC-in, 12V/1.5A ~ 24V/0.75A
	Environment	Operating Temp.& Humidity Standard: 0~60 degrees, 5% to 95% (relative humidity, non-condensing) Extend: -40~80 degrees, 5% to 95% (relative humidity, non-condensing)	Operating Temp.& Humidity Standard: 0~60 degrees, 5% to 95% (relative humidity, non-condensing) Extend: -40~80 degrees, 5% to 95% (relative humidity, non-condensing)	Operating Temp.& Humidity Standard: 0~60 degrees, 5% to 95% (relative humidity, non-condensing) Extend: -40~80 degrees, 5% to 95% (relative humidity, non-condensing)	Operating Temp.& Humidity 0~40degrees, 5% to 85%
	Storage Temp.& Humidity -40~85 degrees, 5% to 95%	Storage Temp.& Humidity -40~85 degrees, 5% to 95%	Storage Temp.& Humidity -40~85 degrees, 5% to 95%	Storage Temp.& Humidity -20~60degrees, 5% to 90%	
Mechanism	Dimension	80.8 x 143.4 x 12.5(24.8) mm 3.18 x 5.65 x 0.5(1.05) inch	241.9 x 173.4 x 20.8 mm 9.52 x 6.82 x 0.81 inch	373.5 x 243.1 x 26.2 mm 14.7 x 9.57 x 1.03 inch	213.2 x 127.6 x 15.4
	Mounting Type	In-Wall One-gang mount	Wall Mount/Glass mount / Tabletop	Wall Mount/Glass mount / Tabletop	In-Wall Type One-gang mount/ Tabletop
	Lock Type	N/A	Kensington lock	Kensington lock	N/A
	Accessory	One-gang mount	Mounting bracket, Metal stand	Mounting bracket, Metal stand	One-gang mount



Qbic Technology Co., Ltd 26F-12, No. 99, Sec. 1, Xintai 5th Rd, Xizhi Dist, New Taipei City, 22175 Taiwan

Global Region

✉ info@qbictechnology.com



www.qbictechnology.com



+886-2-2697-2000

US Region

✉ info.us@qbictechnology.com

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