

The logo for LANTRONIX, featuring the word "LANTRONIX" in a bold, sans-serif font. The letters "LAN", "TRON", and "IX" are white, while the letter "X" is orange. A registered trademark symbol (®) is located to the upper right of the "X".

LANTRONIX®

xPico 600 Competitive Positioning

April 2026

Hostless vs bitpipe

A hostless module (like the xPico 600) is an **all-in-one solution** that integrates Wi-Fi connectivity, networking and application functions from your host system, whereas a bit-pipe module requires a costly external processor for all networking. Hostless designs simplify development, lower cost, risks and accelerate time to market.

Key Objection Handling

- **Why not use Wi-Fi SoC only module?** An all-in-one self-contained connectivity module provides industrial reliability, security certifications, NDAA compliance, and long-term support; All wrapped up in a single component. Resulting in months of development and cost savings.
- **Why not use a Linux SOM (Like Digi ConnectCore)?** Linux SOMs require custom development and maintenance. The xPico 600 is a turnkey solution with pre-integrated security, cloud management, and OTA updates; saving months of development time. When you don't need edge AI/ML compute, xPico 600 wins on every dimension - smaller footprint, zero-host-load, TruPort™ serial pass-through, and NDAA compliance.
- **Why upgrade to Wi-Fi 6 when Wi-Fi 5 is cheaper?** Wi-Fi 5 is no longer optimized for industrial segments. Wi-Fi 6 delivers higher performance in dense environment, improved mobility with faster roaming, and stronger security, making it ideal for AGVs, robotics and industrial applications.
- **Why choose Lantronix?** With 20+ years of industrial connectivity experience and 10-year+ lifecycle support. Lantronix delivers pre-certified security (InfiniShield™), cloud-based device management (PercepXion™) essential for cyber security lifecycle management, and NDAA compliant solutions for secure long-life deployments.

Category	Our Hostless xPico 600	Bit pipe Module	Talking Point	Why it matters?
Cost	Medium	Lower ≠ Lowest TCO	OEM builds network stack, certifications, and device management separately	xPico 600 expedite time to revenue
Throughput	Up to 100 Mbps	100+ Mbps	Design for stability and cost, not for max speed	Industrial environments prioritize reliability over raw speed
SDK, API	✓ Fully Integrated	✗	Support application development and API	Plug-and-play integration with your existing systems
Certifications	✓ Fully certified	✗	Fully certified, and we help you with your product approval	Faster compliance - no delays waiting for certifications
Network Stack integration on your system	✓ Not required	✗	Everything runs on the module, no network stack needed	Simplifies deployment - no need for external MCUs or custom firmware

Factory Industrial IoT 4.0

Industrial Machine Connectivity



Mandatory Features	Lantronix xPico 600 \$20-24 MSRP	Espressif ESP32-C6 \$10-15 MSRP	AMPAK AP6275P \$15+ MSRP
Wi-Fi 6 (2.4GHz & 5GHz)	1T1R	1T1R	2T2R
BLE	5.4	5.2	5.4
Ethernet	Yes, integrated PHY	No	Yes, RMII
WPA3-Enterprise	Yes	No	No
Secureboot	Yes	No	No
SDK	Yes	Yes	Yes
Certifications Support	Yes	No	No

➤ Where xPico 600 wins:

- Reduce breaches in industrial and enterprise deployment.
- Future proof wireless security and stronger protection with WPA3-Enterprise.
- Secureboot prevent unauthorized firmware, enhances product security, and protects brand reputation.
- Fully integrated with SDK and API to support custom application development.
- Industrial-grade reliability & long lifecycle ensuring continuous operation and availability in demanding industrial segments.



Robotics

Automated Guided Vehicles



Mandatory Features	Lantronix xPico 600 \$20-24 MSRP	Murata Type 2BZ \$18+ MSRP	Silicon Labs Wx917 \$18+ MSRP
Wi-Fi 6 (2.4GHz & 5GHz)	1T1R	2T2R	1T1R
Hostless mode	Yes	No	No
Fast Roaming	Yes	Yes	Yes
WPA3-Enterprise	Yes	No	No
SDK	Yes	No	No
Device Management On Prem	Yes	No	Yes

➤ Where xPico 600 wins:

- Hostless designs reduce complexity, cost, and development time.
- 802.11r fast roaming minimizes handoff delays between Wi-Fi AP, ensuring uninterrupted connectivity for AGVs.
- TruPort™ delivers plug-and-play serial to IP connectivity, eliminating custom development reducing time to market
- On Prem Perception™ device management keeps AGVs isolated from external Internet access, enhancing security and control within the facility.



Retail and Logistics

Electronic Shelf Labelling Scanner



Mandatory Features	Lantronix xPico 600 \$20-24 MSRP	Murata Type 2BZ \$18+ MSRP	AMPAK AP6275P \$15+ MSRP
Wi-Fi 6 (2.4GHz & 5GHz)	1T1R	2T2R	2T2R
BLE	5.4	5.2	5.4
Independent antenna between Wi-Fi and BLE	Yes	No	No
Secureboot	Yes	Yes	No
SDK	Yes	No	Yes
Certifications Support	Yes	No	No

➤ Where xPico 600 wins:

- Latest BLE 5.4 ensures reliable connectivity in dense high-traffic environments, maintaining consistent performance across the shop floor.
- Dual independent antennas ensures reliable, interference-free communications.
- Secure Boot with InfiniShield™ ensures cybersecurity compliance.
- Fully integrated with SDK and API to support custom application development.
- Global certification enables worldwide deployment across regions.



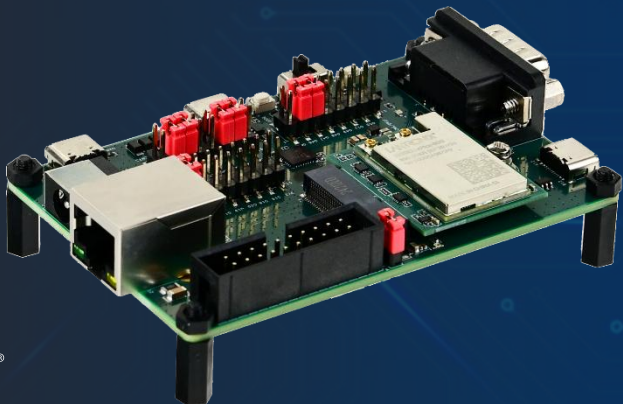
Competitive Matrix

Decision Factor	Lantronix xPico 600	DIGI ConnectCore	AMPAK AP6275P	Murata Type 2BZ	AzureWave AW-CM276NF	Espressif ESP32	Silicon Labs Wx917 Series
Wi-Fi Capabilities	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 802.11a/b/g/n/ac 2x2 MIMO	Wi-Fi 802.11a/b/g/n/ac 2x2 MU-MIMO	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
BLE	BLE 5.4 (Independent antenna)	BLE 5.x	BLE 5.4	BLE 5.2	BLE 5.3	BLE 5.x, Zigbee, Thread (802.15.4)	BLE 5.x
Ethernet	Yes (10/100)	Yes (Gigabit)	No	No	No	No	No
Hostless Operation	Yes (FreeRTOS)	Yes (Linux SOM)	No	No	No	Yes	Yes
Secureboot	Yes	Yes	No	Yes	Yes	Yes	Yes
Security Features	WPA3-Enterprise, NDAA compliant, InfiniShield	TPM	WPA3	WPA3	WPA3	WPA3	WPA3
Form Factor	LGA and m.2	Proprietary	LGA and m.2	LGA	LGA	QFN, LGA, m.2	QFN
Additional Features	OTA updates, TruPort		OTA updates, seamless roaming	OTA updates, high interoperability	OTA updates, high integration	OTA updates, ultra-low power consumption	

Lantronix xPico 600



Form Factor	xPico 600 SKU	Description
LGA	XPC600100P	xPico 600 module sample LGA form factor
LGA	XPC600100S	xPico 600 LGA reel (500pcs)
M.2	XPC600300P	xPico 600 module sample M.2 form factor
M.2	XPC600300S	xPico 600 M.2 tray (200 pcs)
EVB	XPC600100EK	Evaluation Board (includes M.2 module)



Specifications

Hardware

- Based on NXP RW610 260MHz
- Memory: 16MB flash, 8MB PSRAM, 1.2 MB On-Chip SRAM
- Wi-Fi 6 (802.11ax) with two separate antennas allowing simultaneous independent operation of the Wi-Fi and BLE radios
- BLE 5.4
- SDIO3.0
- USB 2.0 OTG
- UART/SPI/I2C
- Integrated PHY Supporting 100Mbps, external magnetics required.
- Input voltage: 3.3 Vdc
- Industrial grade: -40°C to +85°C
- Dimensions:
 - M.2 3030 E-Key standard
 - LGA: 18 x 28.5 x 3.15 mm
- Warranty: 5 years

Software

- Wi-Fi Connectivity
 - Concurrent Soft AP and Client Mode
 - WPA/WPA2/WPA3 Personal and Enterprise
 - Support 802.11r
- BLE Connectivity
 - BLE Central and Peripheral Roles
 - Support for Generic Access Profile (GAP), Generic Attribute Profile (GATT)
- Ethernet to Wi-Fi STA Bridge or Ethernet to Wi-Fi AP
- TruPort® Serial and TruPort Socket essential applications
- Secure Connections
- Secure Boot, Secure OTA
- Role-based access control
- Encrypted key and credential storage
- SSL/TLS 1.3 with X.509 Certificate Management
- Web API, XML, Serial Command API
- PercepXion Client



Thank You!



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LANTRONIX

Global Industrial IoT Leader based in Irvine, CA