



 matter
SMART HOME
SOLUTIONS
with **Panasonic**

THREAD



PAN-MaX

- Interoperability – One communication protocol to integrate a multi-vendor smart home.
- Standards based Connectivity: Built over well-established technologies (Wi-Fi, Bluetooth, Thread)
- Reliable: Devices work reliably in local network –with or without access to internet
- Secure: Best practices implemented in standard to guarantee data security & user privacy
- Easy: Standardized intuitive device deployment using consumer friendly technologies
- Use Cases: Many smart home user scenarios standardized; others being continuously added.



Alarms & Sensors



HVAC



EV Charger



Window Covers



Switches & Lights



Appliances



Door Locks

What
is Matter?

Why
use Matter?

How
to use Matter?

- End User Adoption: Smart Home Category to experience growth due to trustworthy purchasing and deployment
- Industry-led: Contributions by major smart home actors from device & semiconductor industry
- Natively Compatible with Smart Assistants: Out of the box operation with leading platforms



SmartThings

- Open source: No associated software licensing fees for the Matter stack
- Faster Market Access: Standardization facilitates new use cases, creates an open marketplace, fosters innovation
- Strong Brand Value: Only authentic product allowed to join network, this protects the brand from fake copies
- Regain the focus: With connectivity that just works, device makers can concentrate on core business

- Connectivity Standards Alliance: Become a CSA member to get access to Matter technology.
- Wireless Modules: Use multi-protocol certified radio hardware to quickly enable Matter
- Matter SDK: Use examples from semiconductor vendors who have adapted open-source Matter SDK for their devices
- Security: Usage of PKI and newest blockchain technology.
- **Matter Certification Testing:** Test your devices with a CSA authorized Test Service Provider and obtain CD
- Connect other IoT Ecosystems: Work with a “Bridge” device to bring non-native Matter devices onboard

Ready to Matter?

Learn More: <https://na.industrial.panasonic.com/products/wireless-connectivity>





compatible hardware platforms

THREAD				THREAD WiFi™	WiFi™	
Low Power Nodes				Border Router, Controller	WiFi End Devices	
PAN1780	PAN1770	PAN1783	PAN1783A	PAN9019A	PAN9028	PAN9019
Technology		Bluetooth 5.3 & 802.15.4		WiFi 6 & BT 5.2 & 802.15.4	WiFi 5 & BT 5.2	WiFi 6 & BT 5.2
Chip		nRF52840		IW612	88W8987	IW611
Processor		ARM Cortex-M4F		hosted module	hosted module	hosted module
Secure Enclave		No		No	No	No
Flash/Ram		1MB Flash, 256 kB RAM		App: 1 MB, 512 kB Net: 256 kB, 64 kB	-	-
Antenna		Chip	uFL	RF Pad	Chip / RF Pad (switchable)	RF Pad
Size [mm]		15.6 x 8.7 x 2		15.3 x 12 x 2.5	24 x 12 x 2.8	15.3 x 12 x 2.5



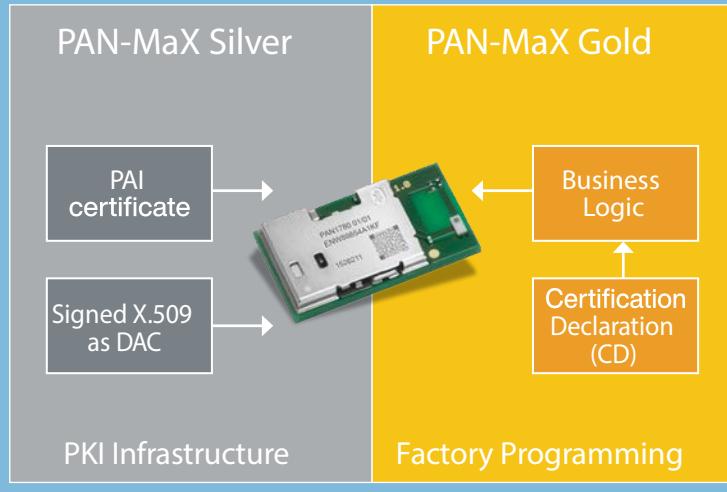
Certificate Service

PAN-MaX

- a single window multi-tier service for your Matter projects

PAN-MaX Diamond

Matter Certification Testing with partner Testing Service Provider



PAN-MaX Diamond

Gold+ Panasonic driven Easy Access at a CSA Approved - Matter Testing Provider

PAN-MaX Gold

Silver + Customized Part number with Factory Software Programming Service for Business Logic (User App) and Certification Declaration

PAN-MaX Silver

Public Key Infrastructure (PKI) with Panasonic as PAI
Signed X.509 Certificates for use as Matter DAC on Panasonic Modules

Panasonic Chain of Trust for your Matter project

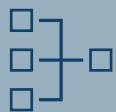
Blockchain based source of truth about device & vendor compliance

CSA approved PKI vendor providing Root of Trust for Panasonic

Panasonic PAI used to sign DAC for cryptographic verification

Digital Certificate that is written to ODM's Matter device to prove its truthworthiness.

Tests the compliance of the product with the Matter standard.



CSA Distributed Compliance Ledger (DCL)



Product Attestation Authority (PAA)



Product Attestation Intermediate (PAI)



Device Attestation Certificates (DAC)



CSA authorized Test Service Provider

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