

ProDVX NFC solutions guide

NFC, or Near Field Communication, plays a pivotal role in enhancing the functionality and user experience of ProDVX branded displays. ProDVX integrates NFC technology into many of its displays to enable seamless and efficient interactions between users and their digital signage solutions. Here's how NFC technology benefits ProDVX displays:

Contactless Interactions: ProDVX displays equipped with NFC technology empower users to engage with the content on the screen without physical contact. By simply tapping their NFC-enabled devices, such as smartphones or tablets, to the ProDVX display, users can effortlessly access and interact with digital content.

Effortless Content Sharing: ProDVX displays with NFC functionality facilitate the swift and secure transfer of data. Whether it's sharing product information, promotional content, or business presentations, users can exchange data with ease by tapping their NFC-enabled devices to the display.

Secure Access Control: ProDVX integrates NFC technology for enhanced security in access control systems. NFC cards or badges can be utilized to grant access to authorized personnel, ensuring a streamlined and secure entry process for offices, hotels, or restricted areas.

Efficient Payments: In commercial settings, ProDVX displays with NFC enable seamless contactless payment solutions. Customers can complete transactions swiftly by tapping their NFC-enabled payment cards or mobile wallets on the display, making the purchasing process efficient and secure.

Transportation Solutions: ProDVX's integration of NFC extends to transportation applications. Whether it's for ticketing on buses or access control at transit stations, ProDVX displays equipped with NFC technology facilitate convenient and quick transactions for passengers.

Enhanced Device Pairing: ProDVX branded displays simplify the pairing process with other smart devices. NFC technology allows users to effortlessly connect their smartphones, tablets, or other gadgets to the display by tapping them to the designated NFC area.

Authentication and Product Verification: NFC-enabled tags or labels can be easily read by ProDVX displays, enabling robust authentication and product verification processes. This is invaluable for businesses aiming to maintain the integrity of their products and enhance customer trust.

ProDVX's commitment to incorporating NFC technology into many of its branded displays underscores its dedication to providing innovative and user-friendly solutions. With NFC-enabled ProDVX displays, businesses and organizations can offer enhanced user experiences, bolster security measures, and streamline various processes, ultimately driving efficiency and engagement in diverse applications.

ProDVX is offering several options for NFC communication. Some of our Android powered APPC models have an option for internal NFC (not possible to add afterwards). These models have an "N" in their name, such as the APPC-10SLBN and the APPC-7XPLN. Other models have the possibility to connect an external NFC module using the PoGo pin option. These models also include our Intel based IPPC models.

Internal NFC technology

The internal NFC technology in ProDVX “N”-models support the following transmission modes:

NFC FORUM NFC-IP MODES	READER (PCD-VCD)	CARD (PICC)
READER FOR NFC FORUM TAGS 1 TO 5	ISO/IEC 14443 A	T4T - ISO/IEC 14443 A
P2P ACTIVE 106 TO 424 kbps INITIATOR AND TARGET	ISO/IEC 14443 B	T4T - ISO/IEC 14443 B
P2P PASSIVE 106 TO 424 kbps INITIATOR AND TARGET	ISO/IEC 15693	MIFARE 1K/4K
	MIFARE 1K/4K	MIFARE DESFire ev1
	MIFARE DESFire ev1	T3T - Sony FeliCa
	Sony FeliCa (according to ISO/IEC 18092 (Ecma 340) standard)	

The internal NFC technology is using the well known PN553 from NXP Semiconductors NV. For more specific information, please contact your ProDVX account manager.

PoGo NFC Module

The external PoGo NFC module that is supported in ProDVX’ non- “N”-models, operating with Android 8 (and above) and Windows 10 (and above) are supporting the following transmission modes:

NFC FORUM NFC-IP MODES	READER (PCD-VCD)	CARD (PICC)
READER FOR NFC FORUM TAGS 1 TO 4	ISO/IEC 14443 A	ISO/IEC 14443 A
P2P ACTIVE 106 TO 424 kbps INITIATOR AND TARGET	ISO/IEC 14443 B	ISO/IEC 14443 B
P2P PASSIVE 106 TO 424 kbps INITIATOR AND TARGET	ISO/IEC 15693	MIFARE
	MIFARE 1K	MIFARE DESFire ev1
	MIFARE DESFire ev1	FeliCa
	Sony FeliCa (Card UID)	

The external PoGo NFC module is using the CT-NFC C325-1 module from Chilitag Technologies Ltd. For more specific information and availability, please contact your ProDVX account manager.