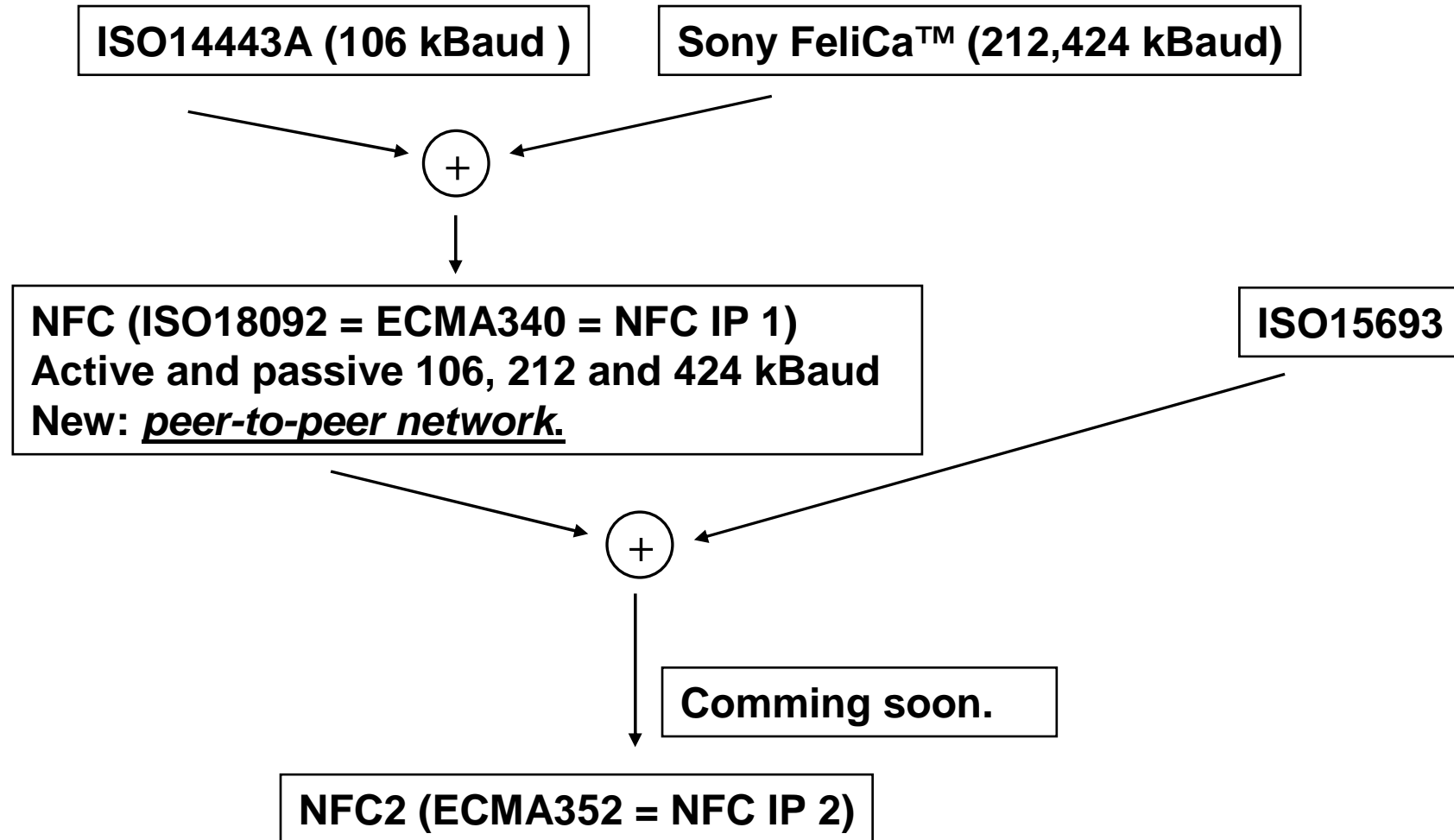
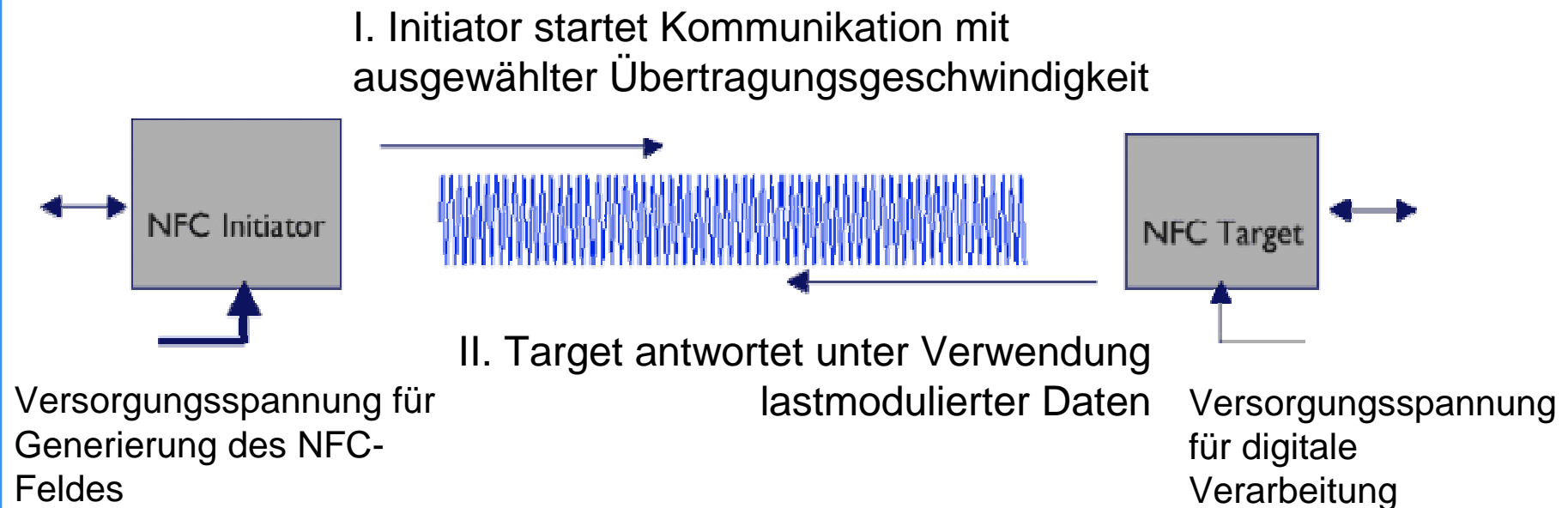


NFC (Near Field Communication) is based on existing 13,56 MHz standards



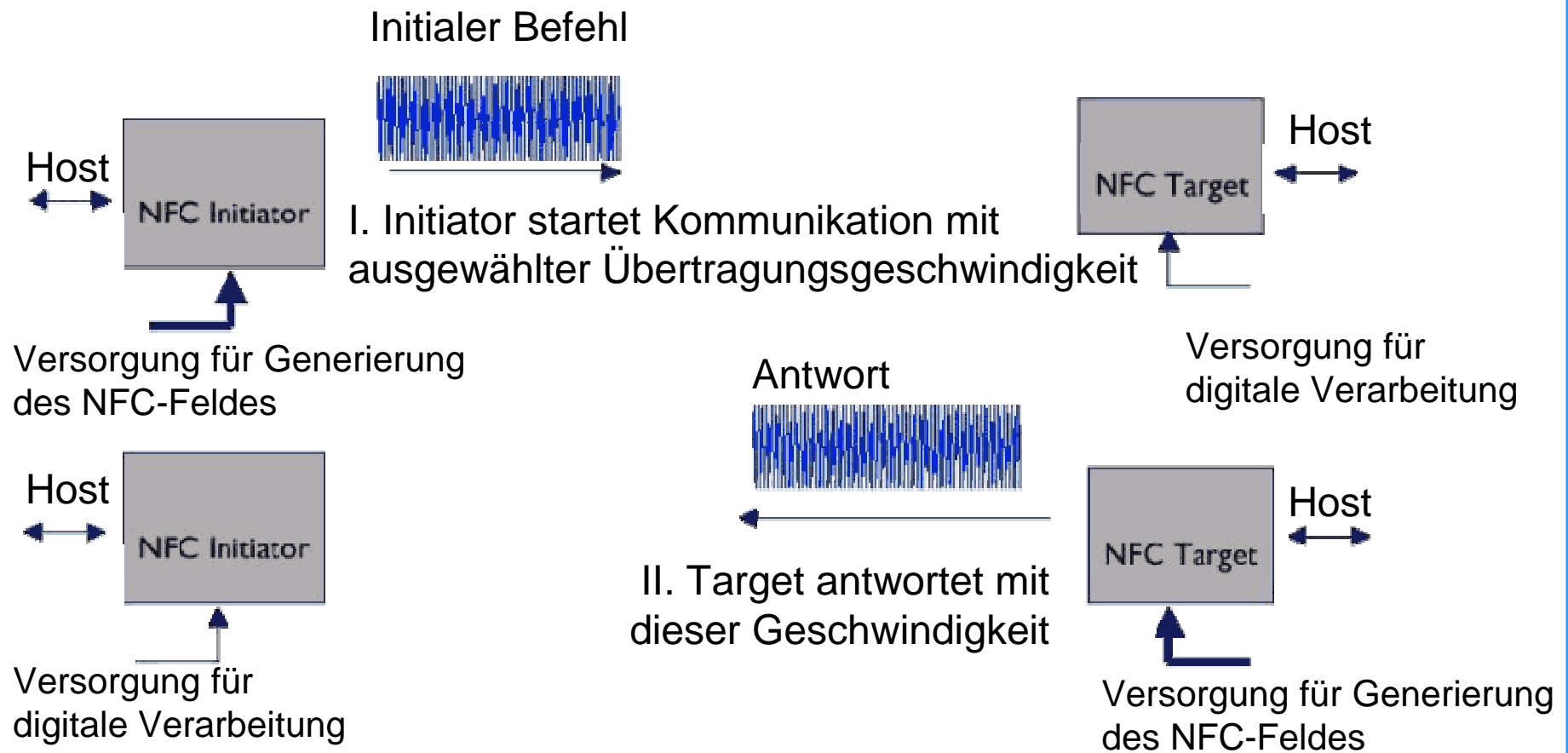
NFC Grundlagen - Passiver NFC Modus

- Target ist passiv: antwortet auf Initiatorbefehl mit Lastmodulation
- Initiator ist aktiv: erzeugt das HF-Feld



NFC Grundlagen - Aktiver NFC Modus

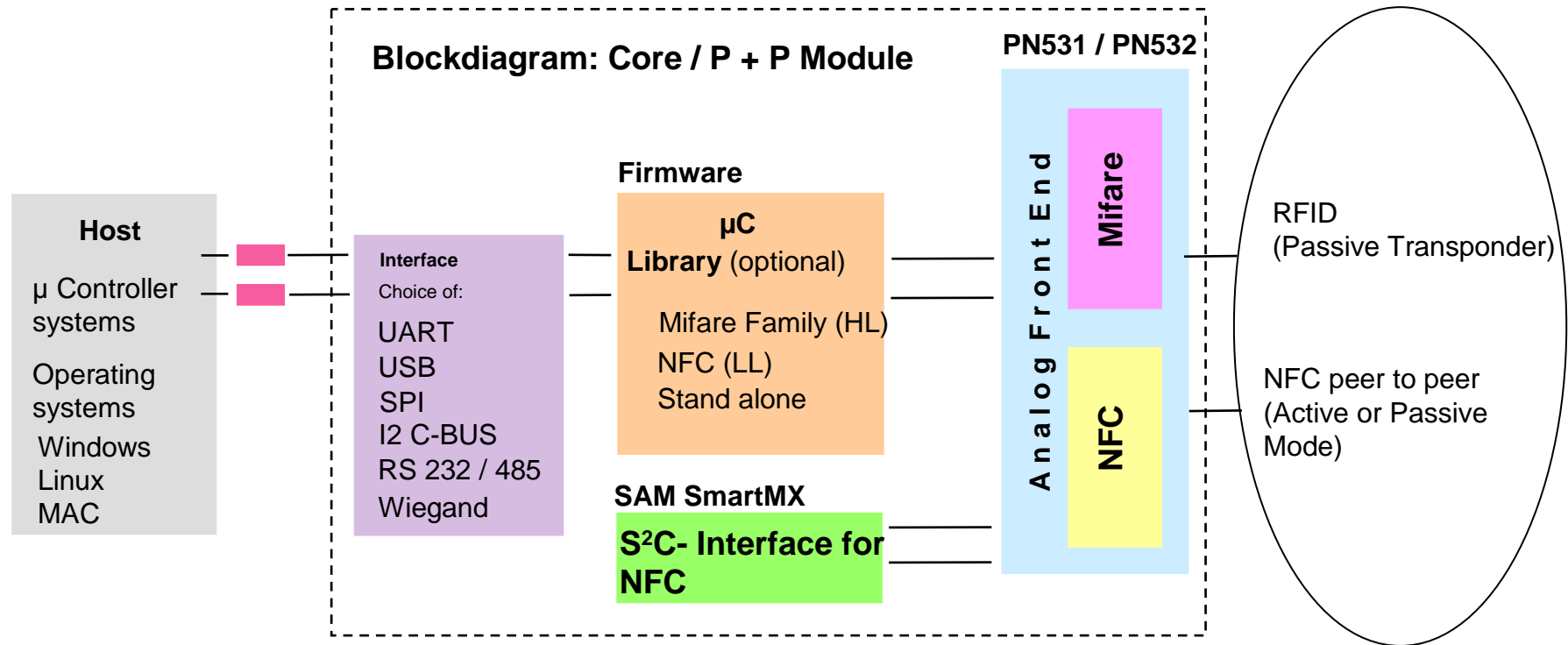
Beide Kommunikationspartner erzeugen ein HF-Feld



NFC compared with Bluetooth and IrDa

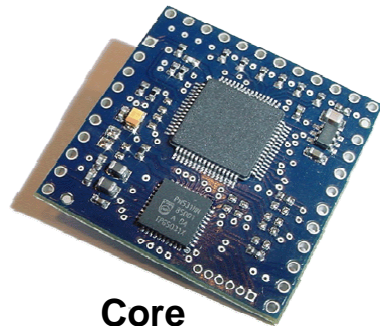
| | <u>NFC</u> | Benefits of NFC | Bluetooth | IrDa |
|-----------------------|-------------------------------|---|---------------------|----------------|
| Network Type | Point-to-point | Easy set-up, pairing = bringing close | Point-to-multipoint | Point-to-point |
| Range | <0.1 m | Safe, suitable for crowded areas | 10 m | 1 m |
| Speed | 424 kbps (1Mbps coming) | | 721 kbps | 115 kbps |
| Set-up time | <0.1 s | Fast transactions e.g. for public transport | 6 s | 0.5 s |
| Modes | Active-active, active-passive | Reader mode and card-like mode | Active-active | Active-active |
| Compatible with RF ID | Yes | Can work with existing infrastructure | No | No |
| Costs | Low | Affordable for most devices | Moderate | Low |

PM Arygon NFC / Mifare[®] Reader Module Products



ARYGON NFC / Mifare[®] reader module products

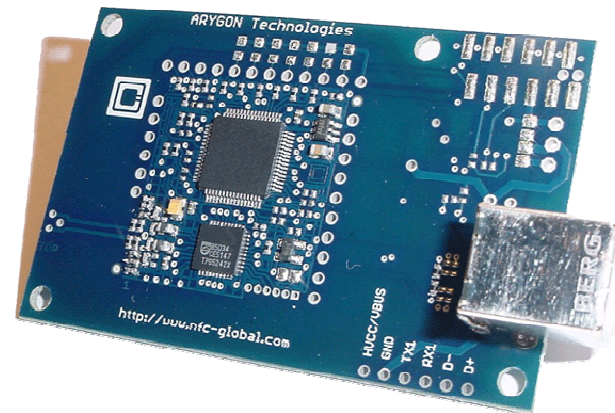
We are offering OEM standard modules Core, Plug + Play and desktop reader.



**Core
ACMA**



**Desktop reader
ADRA**



**Plug + play
APPA**

Important!!!

To give customers the right price performance of ratio of modules, we can offer 15 various options based on only one PCB, according to order information.

ARYGON NFC / Mifare[®] mobile reader module

Overview of present mobile devices where module integration is taking place

HP iPAQ 6515
Yoonison



Smart phone PDA AXIA



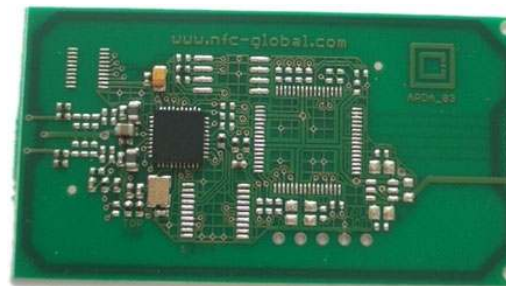
Austro Montan
mobile phone



Yoonison/mobi- click



Senior mobile phone



Type:
APDA (P+P)