

UHF Card Inlay

Chip specifications & sheet references

Compare the exact IC, including legacy references. These are chip specifications; the quotation identifies the supplied chip, antenna and available sheet construction.

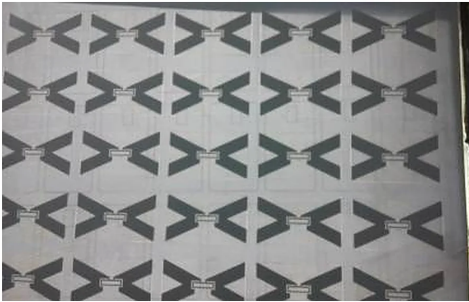
Chip / interface	Memory and configuration	Application fit
NXP UCODE 8 EPC Gen2v2 / ISO 18000-63 · 840–960 MHz IC input	EPC 128 bits · TID 96 bits · User 0 bits TID is factory-locked and includes a 48-bit serial number. UCODE 8m has a different memory allocation.	Card identifiers that need up to 128 EPC bits. Keep UCODE 8 distinct from 8m when specifying the EPC length and any extra on-chip data.
NXP UCODE 9 EPC Gen2v2.1 / ISO 18000-63 · 840–960 MHz IC input	EPC 96 bits · TID 96 bits · User 0 bits TID is factory-locked and includes a 48-bit serial number. UCODE 9 is not the extended-memory 9xm.	Card systems using a 96-bit EPC identifier. Check the identifier length before substituting this chip into a card design specified for 128 EPC bits.
Impinj M730 EPC Gen2v2 / ISO 18000-63 · 860–960 MHz carrier	EPC 128 bits · TID 96 bits · User 0 bits Read-only TID: 32-bit IC identification + 16-bit extended header + 48-bit serialization.	128-bit EPC card designs using an M730 antenna assembly. M730 and M750 have different EPC/user allocations. Check antenna matching as well as the memory map.
Impinj Monza R6 EPC Gen2 / ISO 18000-63 · 860–960 MHz carrier	EPC up to 96 bits · TID 96 bits · User 0 bits Read-only TID contains IC identification, an extended header and serialization. This is R6, not R6-P.	Legacy design comparison and replacement planning. Impinj identifies Monza R6 as in the end-of-life process. Review a supported replacement and requalify the finished card.

EPC is the programmable item identifier. TID identifies the IC and is not application storage. All four exact chips shown have no separate user memory; UCODE 8m, UCODE 9xm and Monza R6-P are different variants.

- Original manufacturer sources
- [UCODE 8 / 8m datasheet](#)
- [UCODE 9 datasheet](#)
- [Impinj M700 series specification table](#)
- [Monza R6 / R6-P specification and lifecycle table](#)

Sheet & antenna references

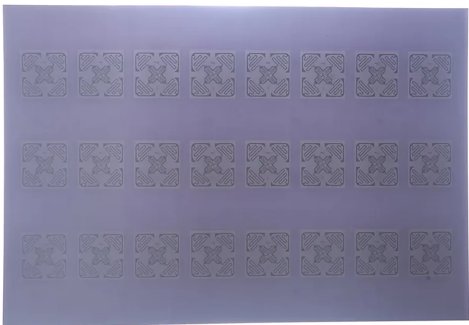
Photographed examples help identify the layout and antenna style. They do not establish current production dimensions, substrate, thickness or stock availability.



Bow-tie antenna sheet

Partial sheet view

Historical photo: ACT Trinnovation Q4 2017, slide 18. Antenna arms and central connection areas are visible; cropped sheet edges prevent a full position count. It does not establish current sheet dimensions or availability.



3 × 8 square-pattern sheet

24 pictured positions

A full sheet view from the existing UHF gallery shows 24 positions. The photograph does not identify the chip, antenna size or tuned band; use the approved drawing for those details.

From reference to production sheet

The quotation and approved drawing identify the supplied IC, overall sheet and antenna dimensions, thickness and tolerances, materials, usable positions, MOQ and schedule. These supply values are not established by this reference document.

Compare configurations and request sample sheets on the product page →