

8.3.1 Shared resources

AAR shares the same AES module as the ECB and CCM peripherals. ECB will always have the lowest priority. If there is a sharing conflict during encryption, ECB operation will be aborted and an **ERRORECB** event will be generated by ECB.

Additionally, AAR shares registers and other resources with the peripherals that have the same ID as AAR. See [Peripherals with shared ID](#) on page 214 for more information.

8.3.2 Resolving a resolvable address

As per *Bluetooth* specification, a private resolvable address is composed of six bytes.



Figure 38: Resolvable address

To resolve an address, IN.PTR must point to a job list describing both the Hash and Prand parts of the private resolvable address (DEVICEADDR) field from the Bluetooth packet, as well as a number of Identity Resolving Keys (IRK). This is illustrated in the examples below. How many IRKs are used is determined by the number of IRKs in the job list. See [EasyDMA](#) on page 223 for an introduction to EasyDMA job lists.

The resolver is started by triggering the **START** task. A **RESOLVED** event is generated if AAR manages to resolve the address using one of the Identity Resolving Keys (IRK). AAR will generate a **NOTRESOLVED** event if it is not able to resolve the address using the specified list of IRKs. If there are no IRKs in the joblist, the **NOTRESOLVED** event is generated.

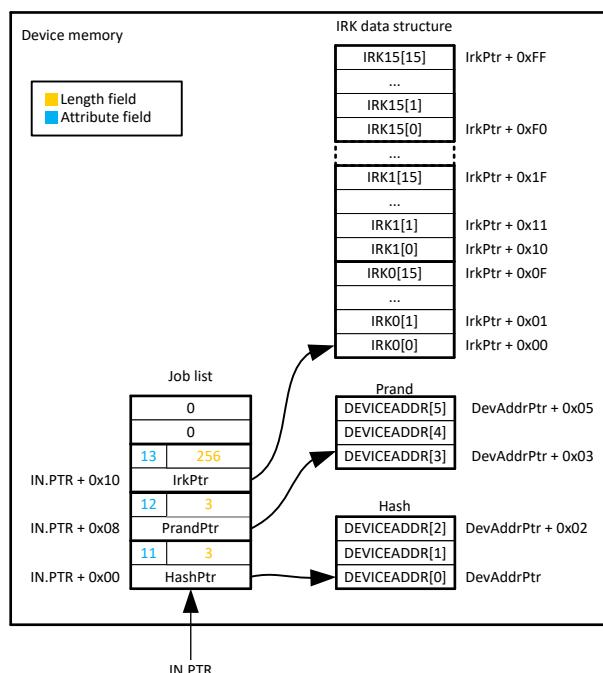


Figure 39: Address resolution with 16 IRKs and DEVICEADDR preloaded into RAM