

2.3 Register overview table

The register overview table shows a summary of all peripheral registers.

The following table explains the columns of the register overview table.

Field	Description
Register	Name of register
Offset	Offset address from peripheral base address
TZ	Security setting for split-security peripherals, blank for other peripherals
Description	Short summary of intended use

Table 4: Register overview table

2.4 Register tables

Individual registers are described using register tables. These tables are composed of two sections. The first three colored rows describe the position and size of the different fields in the register. The following rows describe the fields in more detail.

2.4.1 Fields and values

The ID row specifies the bits that belong to the different fields in the register. If a field has enumerated values, then every value will be identified with a unique value ID in the Value ID column.

A blank space means that the field is reserved and read as undefined. These fields must be written as 0 to secure forward compatibility. If a register is divided into more than one field, a unique field name is specified for each field in the Field column. The Value ID may be omitted in the single-bit fields when values can be substituted with a Boolean type enumerator range, such as true/false, disable(d)/enable(d), on/off, and so on.

Values are usually provided as decimal or hexadecimal. Hexadecimal values have a 0x prefix; decimal values have no prefix.

The Value column can be populated in the following ways:

- Individual enumerated values, for example 1, 3, 9.
- Range of values, for example [0..4], indicating all values from 0 to 4.
- Implicit values. If no values are indicated in the Value column, all bit combinations are supported, or the field's translation and limitations are described in the text instead.

If two or more fields are closely related, the Value ID, Value, and Description may be omitted for all but the first field. Subsequent fields will indicate inheritance with '..'.

A feature marked Deprecated should not be used for new designs.

2.4.2 Permissions

Each register field can have different access permissions enforced by hardware. The access permission for each register field is documented in the Access column in the following ways: