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On a class of commutative groupoids determined by their associativity triples

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Abstract: Let $G = G(\cdot)$ be a commutative groupoid such that $\{(a,b,c) \in G^3;\ a \cdot bc \neq ab \cdot c\} = \{(a,b,c) \in G^3;\ a = b \neq c \text{ or } a \neq b = c\}$. Then G is determined uniquely up to isomorphism and if it is finite, then $card(G) = 2^i$ for an integer $i \geq 0$.

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