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A discrete generalized coupled dispersionless integrable system and its multisoliton solutions

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Highlights

- An integrable discretization of the generalized coupled dispersionless integrable system (dGCD) system via Lax pair is presented.
- A Darboux transformation is proposed for dGCD system.
- Darboux matrix is defined in terms of quasideterminant.
- Quasideterminant multisoliton solutions have been computed.
- Explicit expressions of one and two soliton solutions have been computed.