ONFI Technical Errata

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| **Errata ID** | **001** |
| **Affected Spec Ver.** | **ONFI 5.0/5.1/5.2** |
| **Corrected Spec Ver.** |  |

Submission info

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| Name | Company | Date |
| Kai-Uwe Schmidt | Solidigm/SKH | 05/30/24 |

This erratum updates the Table 2-6 to correct missing and incorrect signal mappings.

| **Signal Name** | **M/O/R** | **BGA-178 SDR x8** | **BGA-178 NV-DDR x8** | **BGA-178 NV-DDR2/3 x8** | **BGA-178 NV-LPDDR4 x8** | **BGA-154 SDR x8** | **BGA-154 NV-DDR x8** | **BGA-154 NV-DDR2/3 x8** | **BGA-154 NV-LPDDR4 x8** | **BGA-146 SDR x8** | **BGA-146 NV-DDR x8** | **BGA-146 NV-DDR2/3 x8** | **BGA-146 NV-LPDDR4 x8** |
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| R/B0\_0\_n  R/B0\_1\_n  R/B1\_0\_n  R/B1\_1\_n | M  O  O  O | F8  K8  G8  J8 | F8  K8  G8  J8 | F8  K8  G8  J8 | F8  K8  G8  J8 | F7  K7  G7  J7 | F7  K7  G7  J7 | F7  K7  G7  J7 | F7  K7  G7  J7 | H8  H4  H7  H5 | H8  H4  H7  H5 | H8  H4  H7  H5 | H8  H4  H7  H5 |
| RE\_0\_n (t)  RE\_1\_n (t) | M  O | G4  J12 | na  na | G4  J12 | G4  J12 | G3  J11 | na  na | G3  J11 | G3  J11 | D7  M5 | na  na | D7  M5 | D7  M5 |
| RE\_0\_c  RE\_1\_c | O  O | na  na | na  na | G5  J11 | G5  J11 | na  na | na  na | G4  J10 | G4  J10 | na  na | na  na | E7  L5 | E7  L5 |
| W/R\_0\_n  W/R\_1\_n | M  O | na  na | G4  J12 | na  na | na  na | na  na | G3  J11 | na  na | na  na | na  na | D7  M5 | na  na | na  na |
| CE0\_0\_n  CE0\_1\_n  CE1\_0\_n  CE1\_1\_n  CE2\_0\_n  CE2\_1\_n  CE3\_0\_n  CE3\_1\_n | M  O  O  O  O  O  O  O | E8  L8  E7  L9  F7  K9  G7  J9 | E8  L8  E7  L9  F7  K9  G7  J9 | E8  L8  E7  L9  F7  K9  G7  J9 | E8  L8  E7  L9  F7  K9  G7  J9 | E7  L7  E6  L8  F6  K8  G6  J8 | E7  L7  E6  L8  F6  K8  G6  J8 | E7  L7  E6  L8  F6  K8  G6  J8 | E7  L7  E6  L8  F6  K8  G6  J8 | H9  H3  G9  J3  G8  J4  G7  J5 | H9  H3  G9  J3  G8  J4  G7  J5 | H9  H3  G9  J3  G8  J4  G7  J5 | H9  H3  G9  J3  G8  J4  G7  J5 |
| Vcc | M | C8  N8  D4  D12  M4  M12  G3  J13 | C8  N8  D4  D12  M4  M12  G3  J13 | C8  N8  D4  D12  M4  M12  G3  J13 | C8  N8  D4  D12  M4  M12  G3  J13 | C7  N7  D3  D11  M3  M11  G2  J12 | C7  N7  D3  D11  M3  M11  G2  J12 | C7  N7  D3  D11  M3  M11  G2  J12 | C7  N7  D3  D11  M3  M11  G2  J12 | H11  H1  D2  D10  M2  M10  C7  N5 | H11  H1  D2  D10  M2  M10  C7  N5 | H11  H1  D2  D10  M2  M10  C7  N5 | H11  H1  D2  D10  M2  M10  C7  N5 |
| VccQ | M | C4  N12  D3  M13  E5  L11  F3  K13  K3  F13  L5  E11  M3  D13  N4  C12  N6  C10 | C4  N12  D3  M13  E5  L11  F3  K13  K3  F13  L5  E11  M3  D13  N4  C12  N6  C10 | C4  N12  D3  M13  E5  L11  F3  K13  K3  F13  L5  E11  M3  D13  N4  C12  N6  C10 | C4  N12  D3  M13  E5  L11  F3  K13  K3  F13  L5  E11  M3  D13  N4  C12  N6  C10 | C3  N11  D2  M12  E4  L10  F2  K12  K2  F12  L4  E10  M2  D12  N3  C11  N5  C9 | C3  N11  D2  M12  E4  L10  F2  K12  K2  F12  L4  E10  M2  D12  N3  C11  N5  C9 | C3  N11  D2  M12  E4  L10  F2  K12  K2  F12  L4  E10  M2  D12  N3  C11  N5  C9 | C3  N11  D2  M12  E4  L10  F2  K12  K2  F12  L4  E10  M2  D12  N3  C11  N5  C9 | D11  M1  C10  N2  E9  L3  C8  N4  C4  N8  E3  L9  C2  N10  D1  M11  F1  K11 | D11  M1  C10  N2  E9  L3  C8  N4  C4  N8  E3  L9  C2  N10  D1  M11  F1  K11 | D11  M1  C10  N2  E9  L3  C8  N4  C4  N8  E3  L9  C2  N10  D1  M11  F1  K11 | D11  M1  C10  N2  E9  L3  C8  N4  C4  N8  E3  L9  C2  N10  D1  M11  F1  K11 |

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| Vss | M | C5  N11  C7  N9  E3  L13  F5  K11  J3  G13  K5  F11  L3  E13  N5  C11  N7  C9 | C5  N11  C7  N9  E3  L13  F5  K11  J3  G13  K5  F11  L3  E13  N5  C11  N7  C9 | C5  N11  C7  N9  E3  L13  F5  K11  J3  G13  K5  F11  L3  E13  N5  C11  N7  C9 | C5  N11  C7  N9  E3  L13  F5  K11  J3  G13  K5  F11  L3  E13  N5  C11  N7  C9 | C4  N10  C6  N8  E2  L12  F4  K10  J2  G12  K4  F10  L2  E12  N4  C10  N6  C8 | C4  N10  C6  N8  E2  L12  F4  K10  J2  G12  K4  F10  L2  E12  N4  C10  N6  C8 | C4  N10  C6  N8  E2  L12  F4  K10  J2  G12  K4  F10  L2  E12  N4  C10  N6  C8 | C4  N10  C6  N8  E2  L12  F4  K10  J2  G12  K4  F10  L2  E12  N4  C10  N6  C8 | E11  L1  G11  J1  C9  N3  E8  L4  C5  N7  E4  L8  C3  N9  E1  L11  G1  J11 | E11  L1  G11  J1  C9  N3  E8  L4  C5  N7  E4  L8  C3  N9  E1  L11  G1  J11 | E11  L1  G11  J1  C9  N3  E8  L4  C5  N7  E4  L8  C3  N9  E1  L11  G1  J11 | E11  L1  G11  J1  C9  N3  E8  L4  C5  N7  E4  L8  C3  N9  E1  L11  G1  J11 |
| VREFQ\_0  VREFQ\_1 | R  R | na  na | na  na | D8  M8 | D8  M8 | na  na | na  na | D7  M7 | D7  M7 | na  na | na  na | H10  H2 | H10  H2 |
| VDDi | O | na | na | na | na | na | na | na | na | na | na | na | na |
| Vpp | O | C6  D6  M10  N10 | C6  D6  M10  N10 | C6  D6  M10  N10 | C6  D6  M10  N10 | C5  D5  M9  N9 | C5  D5  M9  N9 | C5  D5  M9  N9 | C5  D5  M9  N9 | F11  F10  K2  K1 | F11  F10  K2  K1 | F11  F10  K2  K1 | F11  F10  K2  K1 |
| CLE\_0  CLE\_1 | M  O | J7  G9 | J7  G9 | J7  G9 | J7  G9 | J6  G8 | J6  G8 | J6  G8 | J6  G8 | G5  J7 | G5  J7 | G5  J7 | G5  J7 |
| ALE\_0  ALE\_1 | M  O | K7  F9 | K7  F9 | K7  F9 | K7  F9 | K6  F8 | K6  F8 | K6  F8 | K6  F8 | G4  J8 | G4  J8 | G4  J8 | G4  J8 |
| WE\_0\_n  WE\_1\_n | M  O | G6  J10 | na  na | G6  J10 | G6  J10 | G5  J9 | na  na | G5  J9 | G5  J9 | F7  K5 | na  na | F7  K5 | F7  K5 |
| CLK\_0  CLK\_1 | M  O | na  na | G6  J10 | na  na | na  na | na  na | G5  J9 | na  na | na  na | na  na | F7  K5 | na  na | na  na |
| WP\_0\_n  WP\_1\_n | M  O | L7  E9 | L7  E9 | L7  E9 | L7  E9 | L6  E8 | L6  E8 | L6  E8 | L6  E8 | G3  J9 | G3  J9 | G3  J9 | G3  J9 |
| IO0\_0 / DQ0\_0  IO1\_0 / DQ1\_0  IO2\_0 / DQ2\_0  IO3\_0 / DQ3\_0  IO4\_0 / DQ4\_0  IO5\_0 / DQ5\_0  IO6\_0 / DQ6\_0  IO7\_0 / DQ7\_0 | M  M  M  M  M  M  M  M | L6  K6  L4  K4  F4  E4  F6  E6 | L6  K6  L4  K4  F4  E4  F6  E6 | L6  K6  L4  K4  F4  E4  F6  E6 | L6  K6  L4  K4  F4  E4  F6  E6 | L5  K5  L3  K3  F3  E3  F5  E5 | L5  K5  L3  K3  F3  E3  F5  E5 | L5  K5  L3  K3  F3  E3  F5  E5 | L5  K5  L3  K3  F3  E3  F5  E5 | F3  F4  D3  D4  D8  D9  F8  F9 | F3  F4  D3  D4  D8  D9  F8  F9 | F3  F4  D3  D4  D8  D9  F8  F9 | F3  F4  D3  D4  D8  D9  F8  F9 |

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| IO0\_1 / DQ0\_1  IO1\_1 / DQ1\_1  IO2\_1 / DQ2\_1  IO3\_1 / DQ3\_1  IO4\_1 / DQ4\_1  IO5\_1 / DQ5\_1  IO6\_1 / DQ6\_1  IO7\_1 / DQ7\_1 | O  O  O  O  O  O  O  O | E10  F10  E12  F12  K12  L12  K10  L10 | E10  F10  E12  F12  K12  L12  K10  L10 | E10  F10  E12  F12  K12  L12  K10  L10 | E10  F10  E12  F12  K12  L12  K10  L10 | E9  F9  E11  F11  K11  L11  K9  L9 | E9  F9  E11  F11  K11  L11  K9  L9 | E9  F9  E11  F11  K11  L11  K9  L9 | E9  F9  E11  F11  K11  L11  K9  L9 | K9  K8  M9  M8  M4  M3  K4  K3 | K9  K8  M9  M8  M4  M3  K4  K3 | K9  K8  M9  M8  M4  M3  K4  K3 | K9  K8  M9  M8  M4  M3  K4  K3 |
| DQS\_0\_t  DQS\_1\_t | M  O | na  na | J4  G12 | J4  G12 | J4  G12 | na  na | J3  G11 | J3  G11 | J3  G11 | na  na | D5  M7 | D5  M7 | D5  M7 |
| DQS\_0\_c  DQS\_1\_c | R  R | na  na | na  na | J5  G11 | J5  G11 | na  na | na  na | J4  G10 | J4  G10 | na  na | na  na | E5  L7 | E5  L7 |
| VSP0  VSP1  VSP2  VSP3 | O  O  O  O | M5  D11  M6  D10 | M5  D11  M6  D10 | M5  D11  M6  D10 | M5  D11  M6  D10 | M4  D10  M5  D9 | M4  D10  M5  D9 | M4  D10  M5  D9 | M4  D10  M5  D9 | E2  L10  F2  K10 | E2  L10  F2  K10 | E2  L10  F2  K10 | E2  L10  F2  K10 |
| ENi  ENo | O  O | na  na | na  na | na  na | na  na | na  na | na  na | na  na | na  na | na  na | na  na | na  na | na  na |
| ZQ\_0  ZQ\_1 | O  O | na  na | na  na | D7  M9 | D7  M9 | na  na | na  na | D6  M8 | D6  M8 | na  na | na  na | G10  J2 | G10  J2 |
| DBI\_0  DBI\_1 | O  O | na  na | na  na | na  na | J6  G10 | na  na | na  na | na  na | J5  G9 | na  na | na  na | na  na | F5  K7 |

Table 2‑6 Signal mappings: BGA-178, BGA-154 and BGA-146 packages

Disposition log

Technical input submitted to the ONFI Workgroup is subject to the terms of the ONFI contributor’s agreement.