

# DAC1208D650HN-C18

### DAC1208D650HN-C18 Information



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**Certified Quality** 

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



# DAC1208D650HN-C18 Specifications

| Manufacturer Part NumberDAC1208D650HN-C18ManufacturerIDT, Integrated Device Technology IncCategoryIntegrated Circuits (ICs)Data Acquisition - Digital to Analog Converters (DAC)Package64-VFQFN Exposed PadSeries-Number of Bits12Number of D/A Converters2Settling Time20ns (Typ)Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceI.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital.17 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital-Oversampling Interpolating DACOversampling Interpolating DACOperating Temperature64-VFQFN Exposed PadSupplier Device Package64-VFQFN (sys)Munting Type- |                           |   |
|---|---------------------------|---|
| CategoryIntegrated Circuits (ICs)Data Acquisition - Digital to Analog Converters (DAC)Package64-VFQFN Exposed PadSeries-Number of Bits12Number of D/A Converters2Settling Time20ns (Typ)Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceJESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital-ArchitectureOversampling Interpolating DACOperating Temperature-40°C ~ 85°CPackage / Case64-VFQFN (Sys)Mounting Type-  | Manufacturer Part Number  | DAC1208D650HN-C18                                     |
| Data Acquisition - Digital to Analog Converters (DAC)Package64-VFQFN Exposed PadSeries-Number of Bits12Number of D/A Converters2Settling Time20ns (Typ)Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceIESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital1.7 V ~ 1.9 VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature40°C ~ 85°CPackage / Case64-VFQFN (9x9)Mounting Type-  | Manufacturer              | IDT, Integrated Device Technology Inc                 |
| Package64-VFQFN Exposed PadSeries-Number of Bits12Number of D/A Converters2Settling Time20ns (Typ)Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceIESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital1.7 V ~ 1.9 VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature44°C ~ 85°CPackage / Case64-VFQFN (9x9)Mounting Type-   | Category                  | Integrated Circuits (ICs)                             |
| Series-Number of Bits12Number of D/A Converters2Settling Time20ns (Typ)Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceJESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital1.7 V ~ 1.9 VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature40°C ~ 85°CPackage / Case64-VFQFN Exposed PadSupplier Device Package64-VFQFN (9x9)Mounting Type-   |                           | Data Acquisition - Digital to Analog Converters (DAC) |
| Number of Bits12Number of D/A Converters2Settling Time20ns (Typ)Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceJESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital.INL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature44º°C ~ 85°CPackage / Case64-VFQFPN (9x9)Mounting Type-   | Package                   | 64-VFQFN Exposed Pad                                  |
| Number of D/A Converters2Settling Time20ns (Typ)Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceJESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital1.7 V ~ 1.9 VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature44ºC ~ 85°CPackage / Case64-VFQFN (9x9)Mounting Type-   | Series                    | -   |
| Settling Time20ns (Typ)Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceJESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital1.7 V ~ 1.9 VNL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature64-VFQFN Exposed PadSupplier Device Package64-VFQFN (9x9)Mounting Type-   | Number of Bits            | 12  |
| Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceJESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital1.7 V ~ 1.9 VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature64-VFQFN Exposed PadSupplier Device Package64-VFQFPN (9x9)Mounting Type-  | Number of D/A Converters  | 2   |
| InternalYesData InterfaceJESD204AReference TypeInternalVoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital1.7 V ~ 1.9 VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature-40°C ~ 85°CPackage / Case64-VFQFPN (9x9)Supplier Device Package64-VFQFPN (9x9)   | Settling Time             | 20ns (Typ)  |
| Data InterfaceJESD204AReference TypeInternalVoltage - Supply, Analog $1.7 V \sim 1.9 V, 3.13 V \sim 3.47 V$ Voltage - Supply, Digital $1.7 V \sim 1.9 V$ INL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature $-40^{\circ}C \sim 85^{\circ}C$ Package / Case $64-VFQFN Exposed Pad$ Supplier Device Package $64-VFQFN (9x9)$   | Output Type               | Current - Unbuffered                                  |
| Reference TypeInternalVoltage - Supply, Analog $1.7$ V ~ $1.9$ V, $3.13$ V ~ $3.47$ VVoltage - Supply, Digital $1.7$ V ~ $1.9$ VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature $-40^{\circ}$ C ~ $85^{\circ}$ CPackage / Case64-VFQFN Exposed PadSupplier Device Package $-40^{\circ}$ C PPN (9x9)Mounting Type-   | Differential Output       | Yes   |
| Yoltage - Supply, Analog1.7 V ~ 1.9 V, 3.13 V ~ 3.47 VVoltage - Supply, Digital1.7 V ~ 1.9 VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature-40°C ~ 85°CPackage / Case64-VFQFN Exposed PadSupplier Device Package64-VFQFN (9x9)Mounting Type-  | Data Interface            | JESD204A  |
| Voltage - Supply, Digital1.7 V ~ 1.9 VINL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature-40°C ~ 85°CPackage / Case64-VFQFN Exposed PadSupplier Device Package64-VFQFPN (9x9)Mounting Type-   | Reference Type            | Internal  |
| INPY 20INL/DNL (LSB)-ArchitectureOversampling Interpolating DACOperating Temperature-40°C ~ 85°CPackage / Case64-VFQFN Exposed PadSupplier Device Package64-VFQFN (9x9)Mounting Type-   | Voltage - Supply, Analog  | 1.7 V ~ 1.9 V, 3.13 V ~ 3.47 V                        |
| ArchitectureOversampling Interpolating DACOperating Temperature-40°C ~ 85°CPackage / Case64-VFQFN Exposed PadSupplier Device Package64-VFQFPN (9x9)Mounting Type-   | Voltage - Supply, Digital | 1.7 V ~ 1.9 V   |
| Operating Temperature-40°C ~ 85°CPackage / Case64-VFQFN Exposed PadSupplier Device Package64-VFQFN (9x9)Mounting Type-  | INL/DNL (LSB)             | -   |
| Package / Case64-VFQFN Exposed PadSupplier Device Package64-VFQFPN (9x9)Mounting Type-  | Architecture              | Oversampling Interpolating DAC                        |
| Supplier Device Package 64-VFQFPN (9x9)   Mounting Type -   | Operating Temperature     | -40°C ~ 85°C  |
| Mounting Type -   | Package / Case            | 64-VFQFN Exposed Pad                                  |
|   | Supplier Device Package   | 64-VFQFPN (9x9)                                       |
| Report errors?  | Mounting Type             | -   |
|   |                           | Report errors   |

# DAC1208D650HN-C18 Guarantees



**Quality Guarantees** 

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

### DAC1208D650HN-C18 Payment Methods



If you have any question about DAC1208D650HN-C18, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com