

### **DS4402N+ Information**



For Reference Only

Part Number DS4402N+

Manufacturer Maxim Integrated

Category Integrated Circuits (ICs)

Data Acquisition - Digital to Analog Converters

(DAC)

**Description** IC DAC 2CH I2C ADJ 14-TDFN

Package 14-WFDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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# **Certified Quality**

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# **DS4402N+ Specifications**

Manufacturer Part Number         D84402N+           Manufacturer         Maxim Integrated           Category         Integrated Circuits (ICs)           Data Acquisition - Digital to Analog Converters (DAC)           Package         14-WFDFN Exposed Pad           Series         -           Number of Bits         5           Number of D/A Converters         2           Settling Time         -           Output Type         Current - Unbuffered           Differential Output         No           Data Interface         I2C           Reference Type         -           Voltage - Supply, Analog         2.7 V ~ 5.5 V           Voltage - Supply, Digital         2.7 V ~ 5.5 V           INL/DNL (LSB)         ±1 (Max), ±0.5 (Max)           Architecture         Current Sink, Current Source           Operating Temperature         -40°C ~ 85°C           Package / Case         14-WFDFN Exposed Pad           Supplier Device Package         14-TDFN-EP (3x3)           Mounting Type         -		
Category         Integrated Circuits (ICs)           Data Acquisition - Digital to Analog Converters (DAC)           Package         14-WFDFN Exposed Pad           Series         -           Number of Bits         5           Number of D/A Converters         2           Settling Time         -           Output Type         Current - Unbuffered           Differential Output         No           Data Interface         I2C           Reference Type         -           Voltage - Supply, Analog         2.7 V ~ 5.5 V           Voltage - Supply, Digital         2.7 V ~ 5.5 V           INL/DNL (LSB)         ±1 (Max), ±0.5 (Max)           Architecture         Current Sink, Current Source           Operating Temperature         -40°C ~ 85°C           Package / Case         14-WFDFN Exposed Pad           Supplier Device Package         14-TDFN-EP (3x3)           Mounting Type         -	Manufacturer Part Number	DS4402N+
Package14-WFDFN Exposed PadSeries-Number of Bits5Number of D/A Converters2Settling Time-Output TypeCurrent - UnbufferedDifferential OutputNoData Interface12CReference Type-Voltage - Supply, Analog $2.7 \text{ V} \sim 5.5 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 5.5 \text{ V}$ INL/DNL (LSB) $\pm 1 (\text{Max}), \pm 0.5 (\text{Max})$ ArchitectureCurrent Sink, Current SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case14-WFDFN Exposed PadSupplier Device Package14-TDFN-EP (3x3)Mounting Type-	Manufacturer	Maxim Integrated
Package $14\text{-WFDFN Exposed Pad}$ Series-Number of Bits5Number of D/A Converters2Settling Time-Output TypeCurrent - UnbufferedDifferential OutputNoData InterfaceI2CReference Type-Voltage - Supply, Analog $2.7 \text{ V} \sim 5.5 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 5.5 \text{ V}$ INL/DNL (LSB) $\pm 1 \text{ (Max)}, \pm 0.5 \text{ (Max)}$ ArchitectureCurrent Sink, Current SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $14\text{-WFDFN Exposed Pad}$ Supplier Device Package $14\text{-TDFN-EP (3x3)}$ Mounting Type-	Category	Integrated Circuits (ICs)
Series         -           Number of Bits         5           Number of D/A Converters         2           Settling Time         -           Output Type         Current - Unbuffered           Differential Output         No           Data Interface         I2C           Reference Type         -           Voltage - Supply, Analog         2.7 V ~ 5.5 V           Voltage - Supply, Digital         2.7 V ~ 5.5 V           INL/DNL (LSB)         ±1 (Max), ±0.5 (Max)           Architecture         Current Sink, Current Source           Operating Temperature         -40°C ~ 85°C           Package / Case         14-WFDFN Exposed Pad           Supplier Device Package         14-TDFN-EP (3x3)           Mounting Type         -		Data Acquisition - Digital to Analog Converters (DAC)
Number of Bits  Number of D/A Converters  2  Settling Time  - Output Type Current - Unbuffered  Differential Output No Data Interface I2C  Reference Type - Voltage - Supply, Analog 2.7 V ~ 5.5 V  Voltage - Supply, Digital 2.7 V ~ 5.5 V  INL/DNL (LSB) ±1 (Max), ±0.5 (Max)  Architecture Current Sink, Current Source  Operating Temperature -40°C ~ 85°C  Package / Case I4-WFDFN Exposed Pad  Supplier Device Package Mounting Type -	Package	14-WFDFN Exposed Pad
Number of D/A Converters2Settling Time-Output TypeCurrent - UnbufferedDifferential OutputNoData InterfaceI2CReference Type-Voltage - Supply, Analog2.7 V ~ 5.5 VVoltage - Supply, Digital2.7 V ~ 5.5 VINL/DNL (LSB)±1 (Max), ±0.5 (Max)ArchitectureCurrent Sink, Current SourceOperating Temperature-40°C ~ 85°CPackage / Case14-WFDFN Exposed PadSupplier Device Package14-TDFN-EP (3x3)Mounting Type-	Series	-
Settling Time Output Type Current - Unbuffered  Differential Output No Data Interface I2C Reference Type - Voltage - Supply, Analog Voltage - Supply, Digital INL/DNL (LSB) Architecture Current Sink, Current Source Operating Temperature Package / Case I4-WFDFN Exposed Pad Supplier Device Package Mounting Type - Current - Unbuffered  L2C  L2C  L2C  L2C  L2C  L2C  L2C  L2	Number of Bits	5
Output Type Current - Unbuffered  Differential Output No  Data Interface I2C  Reference Type -  Voltage - Supply, Analog 2.7 V ~ 5.5 V  Voltage - Supply, Digital 2.7 V ~ 5.5 V  INL/DNL (LSB) ±1 (Max), ±0.5 (Max)  Architecture Current Sink, Current Source  Operating Temperature -40°C ~ 85°C  Package / Case 14-WFDFN Exposed Pad  Supplier Device Package 14-TDFN-EP (3x3)  Mounting Type -	Number of D/A Converters	2
Differential Output  Data Interface  Reference Type  - Voltage - Supply, Analog  Voltage - Supply, Digital  2.7 V ~ 5.5 V  INL/DNL (LSB)  Architecture  Current Sink, Current Source  Operating Temperature  -40°C ~ 85°C  Package / Case  14-WFDFN Exposed Pad  Supplier Device Package  Mounting Type  -  No  No  No  Current Sink  Architecture  Current Sink, Current Source  -40°C ~ 85°C	Settling Time	-
Data Interface  Reference Type  - Voltage - Supply, Analog  Voltage - Supply, Digital  INL/DNL (LSB)  Architecture  Current Sink, Current Source  Operating Temperature  Package / Case  14-WFDFN Exposed Pad  Supplier Device Package  Mounting Type  -  I2C  -  -  -  -  -  -  -  -  -  -  -  -  -	Output Type	Current - Unbuffered
Reference Type  Voltage - Supply, Analog  2.7 V ~ 5.5 V  Voltage - Supply, Digital  2.7 V ~ 5.5 V  INL/DNL (LSB)  41 (Max), ±0.5 (Max)  Architecture  Current Sink, Current Source  Operating Temperature  -40°C ~ 85°C  Package / Case  14-WFDFN Exposed Pad  Supplier Device Package  14-TDFN-EP (3x3)  Mounting Type  -	Differential Output	No
Voltage - Supply, Analog $2.7 \text{ V} \sim 5.5 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 5.5 \text{ V}$ INL/DNL (LSB) $\pm 1 \text{ (Max)}, \pm 0.5 \text{ (Max)}$ ArchitectureCurrent Sink, Current SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case $14\text{-WFDFN Exposed Pad}$ Supplier Device Package $14\text{-TDFN-EP (3x3)}$ Mounting Type-	Data Interface	I2C
Voltage - Supply, Digital 2.7 V $\sim$ 5.5 V INL/DNL (LSB) $\pm$ 1 (Max), $\pm$ 0.5 (Max) Architecture Current Sink, Current Source Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Package / Case 14-WFDFN Exposed Pad Supplier Device Package 14-TDFN-EP (3x3) Mounting Type $-$	Reference Type	-
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Voltage - Supply, Analog	2.7 V ~ 5.5 V
Architecture Current Sink, Current Source  Operating Temperature -40°C ~ 85°C  Package / Case 14-WFDFN Exposed Pad  Supplier Device Package 14-TDFN-EP (3x3)  Mounting Type -	Voltage - Supply, Digital	2.7 V ~ 5.5 V
Operating Temperature -40°C ~ 85°C  Package / Case 14-WFDFN Exposed Pad  Supplier Device Package 14-TDFN-EP (3x3)  Mounting Type -	INL/DNL (LSB)	$\pm 1 \text{ (Max)}, \pm 0.5 \text{ (Max)}$
Package / Case 14-WFDFN Exposed Pad Supplier Device Package 14-TDFN-EP (3x3) Mounting Type -	Architecture	Current Sink, Current Source
Supplier Device Package 14-TDFN-EP (3x3)  Mounting Type -	Operating Temperature	-40°C ~ 85°C
Mounting Type -	Package / Case	14-WFDFN Exposed Pad
	Supplier Device Package	14-TDFN-EP (3x3)
Report errors?	Mounting Type	-
Report errors.		Report errors?

### **DS4402N+ 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.

### **DS4402N+ Payment Methods**



















## **DS4402N+ Shipping Methods**













If you have any question about DS4402N+, please do not hesitate to contact us!

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