

3D PLUS INTERFACE MODULE P/N DECODER

	1	2	3	4	5	6	7	8	9	10	11	12
3D	<u>XX</u>	<u>00</u> <u>000</u>	<u>00</u>	<u>X</u>	<u>X</u>	0	<u>000</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>0</u>

Ex: 3DLV3108VS1373 IS H R M

1 Type

LV: LVDS

LT: LVTH, LVTLS

RC: Rad-Hard CMOS

2 Sub-type

31: Driver 32: Receiver 33: Transceiver 34: Repeater 35: 3-input majority voter
217: Serializer 218: Deserializer 162245: LVTH 163245, 164245: LVTLS

3 Bus width

01: x1 bit 08: x8 bits 32: x32 bits 48: x48 bits 72: x72 bits nn: xnn bits
04: x4 bits 16: x16 bits 40: x40 bits 64: x64 bits 80: x80 bits

4 Voltage supply

C: 5.00 V V: 3.30 V S: 2.80 V T: 2.50 V U: 1.80 V E: 1.65V-5.50V
W: 1.50 V Y: 1.35 V L: 1.20 V D: 1.20V-5.50V

For dual voltage modules, the lowest voltage supply is used.

5 Package

B: BGA C: Connector F: Flat Pack J: QFJ L: LGA P: PGA
Q: QFP S: SOP

6 Stacked layers

1: 1 layer 2: 2 layers 4: 4 layers 8: 8 layers A: 10 layers n: n layers

7 Control Features

nnn: Product Flyer or Datasheet number

8 Temperature range

C: +0 °C to +70 °C
I: -40 °C to +85 °C
M: -55 °C to +125 °C
S: Specific

3D PLUS S.A.S. reserves the right to change without notice – 3DPI-1010 -3 -Revision 15/02/2024.

I 9 Screening level

N: Commercial grade

B: Industrial grade

S: Space grade

I 10 Screening and LAT options

: The Space grade is derived from the ESA Qualified Quality Grade for Space applications (Category 1 hybrid Manufacturer as per ECSS-Q-ST-60-05C).

1: The Space grade is derived from the ESA Qualified Quality Grade for Space applications (Category 1 hybrid Manufacturer as per ECSS-Q-ST-60-05C and ECSS-Q-ST-60-13C).

P1: For Space grade modules, screening and qualification flow compliant with PEM-INST-001 Level 1 (for microcircuit plastic encapsulated only). The EEE-INST-002 can be applied as well on demand for other components than microcircuit plastic encapsulated

P2: For Space grade modules, screening and qualification flow compliant with PEM-INST-001 Level 2 (for microcircuit plastic encapsulated only). The EEE-INST-002 can be applied as well on demand for other components than microcircuit plastic encapsulated

H: Burn-in is performed according to MIL-STD-883 on industrial grade modules

C: Custom screening as per Custom Product Detail Specification

I 11 Radiation assurance for space grade modules

A: Generic radiation data available

R: Specific radiation data tested

I 12 Coating, tinning, shielding options

: No option by default

L: SnPb termination

A: "ARATHANE" finish

M: "MAPSIL" finish

T: Tantalum shielding