## CIDT

There are several part number types in the IDT high-performance timing nomenclature. IDT has acquired product lines from both ICS and Freescale and the established part numbers have been maintained. The timing families can be identified by their marketing part number prefix and are defined in the following charts.

## TIMING NOMENCLATURE 1

```
IDT A | B C D ZZZ B -XXX PPG|T-Packing Designator T = Shipped in Tape & Reel; Blank = Bulk packing (e.g. tube or tray)
```



## TIMING NOMENCLATURE 2

ICS 8 B C D ZZZ R PP 】-XXX G T• Packing Designator T = Shipped in Tape \& Reel; Blank = Bulk packing (e.g. tube or tray)
G Optional Package Designator $G=$ RoHS $6 / 6$ packaging; Blank: RoHS $5 / 6$ packaging
-XXX Optional Dash Number
$\square$ Operating Temperature Range
I $=-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$
Blank $=0^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$
There are a series of bipolar timing devices that are Industrial operating temperature range but do not have " $I$ " in the part number. See datasheet for details.
Other non-standard temperature ranges indicated on the datasheet.

## PP P Package

R $\quad$ Revision
Devices are initially provided at the " A " revision. Improvements are released using subsequent letters of the alphabet.

## ZZZ . Specific Part Number

Usually one to four digits in length. A dash-number suffix can modify the function.
Last two digits may optionally indicate number of outputs.
D - Special Process Technology (optional)
D = Clock Data Recovery device
$S$ = Device uses SiGe fab process. Absence of "S" indicates that the part is in another process, usually CMOS or Bipolar.

C

- Output Signalling or Part of the Specific Part Number

0 = LVCMOS
1 = HCSL/DCM (PCI Express)
$2=$ HSTL
3 = LVPECL
4 = LVDS
$5=$ CML
8 = SSTL
9 = Selectable
B
Product Function
1 = VCXO based device
2 = Internal use only
3 = Non PLL Buffer, single-ended outputs
4 = PLL frequency Synthesizer (internal feedback, input is usually a crystal)
5 = Non PLL Buffer, differential outputs
$6=$ PLL Zero Delay Buffer (no frequency multiplication/division)
7 = a) Non PLL Buffer/Dividers
b) PLL based frequency multiplication/division (external feedback, zero delay type PLLs. Usually use a reference clock rather than a crystal input.

8

- An " 8 " in the first digit location indicates that the product is in the Networking/Communications line of timing products for enterprise-class applications.

The Integrated Circuit Systems ("ICS") prefix indicates that the device is part of the timing line of products from IDT. This is a marketing prefix only, and is not contained in the orderable part number.

TIMING NOMENCLATURE 3 - NETWORKING AND COMMUNICATIONS WIDE AREA NETWORK PLL


## TIMING NOMENCLATURE 4 - FEMTOCLOCK NG 5x7 CERAMIC

IDT 8N C M BBB Y R M DDD PP I 8 P Packing Designator 8 = Shipped in Tape \& Reel; Blank = Bulk packing (e.g. tube or tray)


8N
IDT $\qquad$ The IDT prefix indicates that the device is part of the timing line of products from IDT.
This prefix should not be included as part of the orderable part number.

Example: IDT 8N30001LG-0001CDI8 is a LVPECL FemtoClockNG programmable oscillator, quad output frequency $(125,100,122.88$, 156.25 MHz), 2.5 V, 20 ppm, G-revision, 114.285 MHz XTAL in a RoHS 6/6 ceramic $5 \times 7$ package with tape and reel.

## TIMING NOMENCLATURE 5 - FEMTOCLOCK NG 5x7 100FN




The IDT prefix indicates that the device is part of the timing line of products from IDT. This prefix should not be included as part of the orderable part number.
Example: IDT 8N3PN10VA-001NRGI8 is a LVPECL FemtoClockNG programmable clock generator with an internal integer-N feedback PLL, with the frequency coded by " 001 ", 3.3 V , A-revision, in a RoHS $6 / 6$ plastic $5 \times 7$ package (100FN), industrial temperature and with tape and reel.

## TIMING NOMENCLATURE 6 - MEMS PROGRAMMABLE DEVICES



## TIMING NOMENCLATURE 7 - IDT PC CLOCK NOMENCLATURE

ICS 9 XXXX ZZZ A Packing Designator (optional)

## TIMING NOMENCLATURE 8



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