Bi-Di buffer (vsdbidi) spec sheet for 180nm tech node

- Specs released under APACHE LICENSE 2.0
- Please contact Kunal at <u>kunalpghosh@gmail.com</u> in case of any doubts

OSU 180nm-6 Metal Layer									
IO_CELL name	Pin names	Direction	Values						
vsdbidi(13440 um2)	А	I							
umzj	EN	I							
Bi-directional Buffer with	GNDO	I	VSS						
Non-Inverting	GNDR	I	VSS						
CMOS Input and Gated Pull-	PAD	Ю							
down and Pull- up, Strength	PDEN	I							
4mA @ 3.3V,	PI	I							
Normal, High noise (Fast	РО	0							
speed)	PUEN	l							
	VDD	I	VDD1V8						
	VDDO	I	VDD3V3						
	VDDR	I	VDD3V3						
	Υ	О							

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	INPUTS				Bi-Dir	OUTPUTS				
Α	EN	PDEN	PI	PUEN	PAD	РО	Υ			
	Input Path (PAD> Y> core)									
X	1	Х	Х	X	0	1	0			
X	1	X	0	X	1	1	1			
Х	1	X	1	X	1	0	1			
	PAD> high-impedence									
Х	1	1	1	1	Z	Х	Х			
Х	1	1	0	1	Z	1	Х			
Х	1	0	Х	1	Z	1	0			
X	1	1	0	0	Z	1	1			
Х	1	1	1	0	Z	0	1			
	Output Path (core> A> PAD) when EN = 0									
Х	1	-	-	-	Z	-	Х			
0	0	-	-	-	0	-	0			
1	0	-	-	-	1	-	1			