ICM standalone setup:

- If possible power ICM via USB, else plug it on your mainboard
- use Xilinx programmer connection to J4

Start Vivado, go to Tasks

Open Hardware Manager



Press Open Target –Auto Connect



Right mouse click on xc7s25_0(1), Add Configuration Memory Device

À Add Configuratio	on Memory Device								×	
Choose a configuration memory part.										
Device: @ xc7s25_0										
Filter										
<u>M</u> anufacturer	ISSI		*		Туре	All			~	
Density (<u>M</u> b)	128		~		Width	All			~	
			<u>R</u> eset A	II Filters						
Select Configuration Memory Part										
Search: Q.										
Name		Part	Manufact	Alias			Family	Туре	Density (
🦻 is25lp128-spi-x1_x2_x4		is25lp128	ISSI				is25lp	spi	128	
Is25wp128-spi-x1_x2_x4 is		is25wp128	ISSI				is25wp	spi	128	
<									>	
?							C	к	Cancel	

Choose is25wp128-spi-x1-x2-x4 and press OK (Do you want to program ..)

Then select Pull-up (State of non-config mem I/O pins)

À Program Configur	ation Memory Device	×
Select a configuratio	2	
Memory Device:	is25wp128-spi-x1_x2_x4	
Configuration file:	H:/zn/Projects/IceCube2/mDOT/Firmware/ICM/mDOT_icm_top_004_x1.mcs	⊗ …
PR <u>M</u> file:		•••
State of non-config	g mem I/O pins: Pull-up 🗸	
Program Operatio	ons	
Address Rang	e: Configuration File Only 🗸	
✓ Erase		
Blank Chee	ck	
Program		
✓ Verify		
Verify <u>C</u> heo	ksum	
SVF Options		
Create <u>S</u> VF	Only (no program operations)	
SVF File:		
?	OK	Apply

When done, you have to power-cycle the ICM to get the new firmware loaded !