

MODEL BASED DESIGN TOOLBOX ENABLING FAST PROTOTYPING AND DESIGN

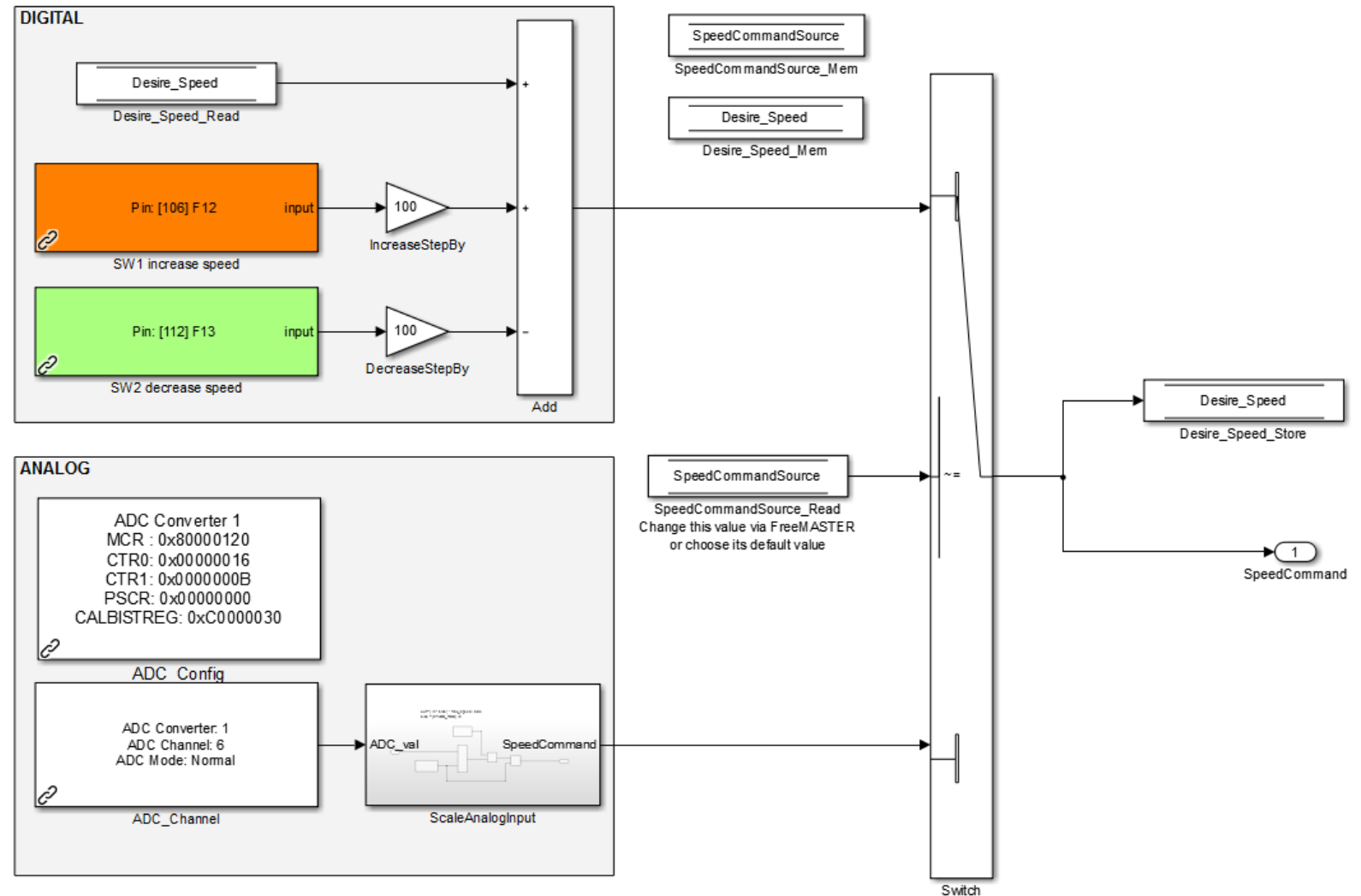
- Combine ADC and GPI inputs
- Speed Command Simulink Block
- Quiz



Speed Reference Block

Options:

- Use user switches SW1&SW2 to change the speed digitally.
- Use on board potentiometer to change the speed analogically.
- Use FreeMASTER to change the speed in real time.
- All computations made on fixed point.
- SpeedCommand value is stored on int16 datatype



Quiz

- Can you change the model to start with at 500 rpm speed reference after reset ?
- To operate smooth in any conditions – the model needs an additional block. What would that be ?
- The model hides a design flaw that needs to be address in the future videos. Can you foreseen that issue ?

MODEL BASED DESIGN TOOLBOX ENABLING FAST PROTOTYPING AND DESIGN

...you are now ready to design the next big thing. Good luck!

Need help? Visit us at: <https://community.nxp.com/community/mbdt> to share ideas

