	number of SDD module (from 0 to A, only even numbers)			
	FF	**FF**	**FF**	**00**
CARLOSrx	*10xxxxxx*	physics_run&am_full&PP &TP&active modules	active modules	load trigger
CARLOS	*11xxxxxx*	*address*	*address*	*address*
	TH ch1	TH ch0	TL ch1	TL ch0
	stop if error	enable 2D	anode length ch1	anode length ch0
	FF	FF	FF	read back
AMBRA ch0 x4	*0000xx10*	*address*	*address*	*address*
	tx address	read counter	write counter	SOP delay
	mask an. 24-31	*mask an. 16-23*	*mask an. 8-15*	*mask an. 0-7*
	mask an. 56-63	*mask an. 48-55*	*mask an. 40-47*	*mask an. 32-39*
	FF	FF	baseline present	read back
	baseline 3	*baseline 2*	*baseline 1*	*baseline 0*
	…	…	…	…
	baseline 63	*baseline 62*	*baseline 61*	*baseline 60*
PASCAL ch0 x4	*0000xx00*	*address*	*address*	*address*
	calibration DAC		VREF control DAC	
	ADC full	AM full	gain control	sel cal channels
	FF	FF	FF	read back
AMBRA ch1 x4	*0010xx10*	*address*	*address*	*address*
	tx address	read counter	write counter	SOP delay
	mask an. 24-31	*mask an. 16-23*	*mask an. 8-15*	*mask an. 0-7*
	mask an. 56-63	*mask an. 48-55*	*mask an. 40-47*	*mask an. 32-39*
	FF	FF	baseline present	read back
	baseline 3	*baseline 2*	*baseline 1*	*baseline 0*
	…	…	…	…
	baseline 63	*baseline 62*	*baseline 61*	*baseline 60*
PASCAL ch1 x4	*0010xx00*	*address*	*address*	*address*
	calibration DAC		VREF control DAC	
	ADC full	AM full	gain control	sel cal channels
	FF	FF	FF	read back
	FF	**FF**	**FF**	**11**
parametri per	…	…	…	…
il modulo	…	…	…	…
successivo	…	…	…	…
	…	…	…	…
	…	…	…	…
	FF	**FF**	**FF**	**FF**

Numero di risposte JTAG attese per ogni modulo: ***4328***

Numero di risposte JTAG attese per ogni modulo (con baseline eq): ***12520***

Notes:

- For stopiferror and enable 2D the following encoding has been used:
  - 0 → 00000000
  - 1 → 01111111
- For ADC full and AM full the following encoding has been chosen:
  - 11111111 → full frequency
  - 00000000 → half frequency
- tx_addr:
  - tx_addr is only written during individual addressing
  - only the 2 LSBs are meaningful for tx_addr.

The baseline values are 6-bit numbers. Only the 6 LSBs are taken into account.