

8CH Long Range High Resolution TDC
C-TS 103
Specifications

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1 Specifications

1.1 COM. START input

Number of inputs	1 (Common to all channels)
Impedance	50Ω
Signal	FAST NIM
Minimum width	>5nS
Connectors	Lemo-type (00.250)

1.2 COM. STOP input

Number of inputs	1 (Common to all channels)
Impedance	50Ω
Signal	FAST NIM
Minimum width	>5nS
Connectors	Lemo-type (00.250)

1.3 Stop inputs

Number of inputs	8
Impedance	50Ω
Signal	FAST NIM
Minimum width	>5nS
Connectors	Lemo-type (00.250)

1.4 Clear input

Number of inputs	1 (Common to all channels)
Impedance	50Ω
signal	FAST NIM
Minimum width	>5nS
Connectors	Lemo-type (00.250)

1.5 TDC

Range	0S~3.27mS
Resolution	125pS (High resolution mode) :set 1-3 hits 250pS :set 4-hits
Integral non-linearity	<±500pS
Measurement data	32BIT real number
Hit (Fold) count	1~4
Conversion time	5μS (After the Stop is entered)

1.6 CAMAC Function

F(0) · A(0-7)	Read data (CH0-CH7) :LSB
F(1) · A(0-7)	Read data (CH0-CH7) :MSB
F(2) · A(0)	Read of HIT CH : R1-R8
F(3) · A(0-7)	Read of HIT counts
F(8) · A(0)	TEST LAM
F(9) · A(0)	Initialize
F(10) · A(0)	ALU RESET
F(16) · A(0-11)	Write data in the internal register
F(17) · A(0)	Set of maximum measurement time(1 μ S~3mS)
F(18) · A(0-7)	Fetch the HIT CH data to read register Select of Multi Hit Data :W1-W2
F(24) · A(0)	DISABLE LAM
F(25) · A(0)	Initialized of TDC
F(26) · A(0)	ENABLE LAM
F(27) · A(0)	Start measurement of TDC

2 Panel image

