

13. Addressing scheme

Completely updated as of 17.11.2023

Address(es)	Board(s)	Description
0000 - 01FF	Trigger	CTS: 0002, 0003; Triggerbox 0010; 2nd Triggerbox 0100, Beam Abort 0130, RICH Control 0110, ECal pulser 0120
1000 - 17FF	MDC Concentrator	2nd digit: inner(0) / outer(1) MDC; 3rd digit: sector (0-5), 4th digit FPGA (0-4)
2000 - 2FFF	MDC OEP	2nd digit: MDC layer (0-3); 3rd digit: sector (0-5); 4th digit MBO (0-F)
5000 - 50FF	Start	Start/Veto. 3rd digit: 0: Start, 1: Veto, 4th digit: FPGA (0-7)
5800 - 58FF	RPC	3rd digit sector (0..5), 4th digit TDC (0..8)
5C00 - 5CFF	TOF	3rd digit sector (0..6), 4th digit TDC (0..3)
5D00 - 5D0F	iTOF	4th digit TDC (0..5)
6000 - 60FF	Ecal	Ecal read-out. 3rd digit: Sector, 4th digit: Readout Board (0-6)
6400 - 64FF	STT	3rd digit detector part (0-7), 4th digit FPGA (0-6)
6700 - 67FF	Wall	3rd digit board (0..2), 4th digit TDC (0..3)
6800 - 68FF	f-RPC	3rd digit board number (0-1), 4th digit FPGA (0-3)
7000 - 7FFF	RICH	DiRich modules. 2nd/3rd digit backplane number, 4th digit: DiRich (0-11)
8000 - 80FF	Central Hub	central hub
83C0 - 83DF	RICH Hubs	Hubs for old RICH, 4th digit: hub number (0..13)
84C0 - 84CF	RPC Hubs	Hubs for RPC, 4th digit: sector (0..5)
86C0 - 86CF	TOF Hub	Hubs (central FPGA TRB3), 4th digit: sector(0..6)
8700 - 870F	Wall Hub	4th digit: board(0..2)
8800 - 88FF	Central Hub	Central Hubs with GbE
8880 - 888F	Start Hub	
8890 - 889F	Hodoscope Hub	
8A00 - 8AFF	Ecal Hubs	4th digit: pseudo-sector
8B00 - 8BFF	STT Hubs	3rd digit board number (0-9)
8C00 - 8CFF	f-RPC Hubs	3rd digit board number (0-1)
8D00 - 8D00	iTOF Hub	
F000 - FDFE	Test Setups	
FD00 - FFFF	Broadcasts	Broadcast addresses, see next table

Table 1: Network Addresses

Address	Description
ff7f	all boards with GbE
fffe	all boards with Hubs
fe40	Hubs: Trb3 central FPGA (TOF, fRPC, FW)
fe61	Hubs: Trb3sc crate master (ECal, RPC, iTOF, Start)
fe65	Hubs in central crate
fe66	RICH Hubs
fe11	MDC Hubs, peripheral FPGA
fe15	MDC Hubs, central FPGA
fffd	MDC OEP
fe51	RICH: DiRich
fe52	RICH Combiner
fe4c	TDC: Veto, STS
fe47	TDC: TOF, fRPC, FW
fe71	TDC: ECal
fe73	TDC: RPC
fe74	TDC: iTOF
fe76	TDC: Start

Table 2: Broadcast Addresses