

Table 9.1: Sub-detector read-out parameters.

sub-detector	number of channels	number of FE chips	number of detector data links	number of sources (FEDs)	number of DAQ links (FRLs)
Tracker pixel	≈ 66 M	15840	≈ 1500	40	40
Tracker strips	≈ 9.3 M	≈ 72 k	≈ 36 k	440	250 (merged)
Preshower	144384	4512	1128	56	56
ECAL	75848	≈ 21 k	≈ 9 k	54	54
HCAL	9072	9072	3072	32	32
Muons CSC	≈ 500 k	≈ 76 k	540	8	8
Muons RPC	192 k	≈ 8.6 k	732	3	3
Muons DT	195 k	48820	60	10	10
Global Trigger	n/a	n/a	n/a	3	3
CSC, DT Track Finder	n/a	n/a	n/a	2	2
Total	≈ 55 M			626	458