

Uplink – FEC 5

- Dual data rate:
 - 5.12 Gb/s
 - 10.24 Gb/s
- Frame:
 - Header:
 - 2 / 4 – bits
 - 2'b10 (high) & 2'b01 (low)
 - IC field:
 - 2 – bit
 - 80 Mb/s
 - EC field:
 - 2 – bit
 - 80 Mb/s
 - Data field:
 - 112 / 224 – bit
 - 4.48 / 8.96 Gb/s
 - FEC field:
 - 10 / 20 – bit
- Error correction:
 - FEC:
 - Interleaving: 1 / 2
 - Symbol width: 5 – bit
 - Number of wrong symbols: 1 (× 1 / × 2)
 - Up to 5 / 10 consecutive bits
 - Efficiency: 91%
- eLinks:
 - Data
 - 28 eLinks @ 160 / 320 Mb/s
 - 14 eLinks @ 320 / 640 Mb/s
 - 7 eLinks @ 640 / 1280 Mb/s
 - EC
 - 1 eLink @ 80 Mb/s

FEC5		
	5.12 Gb/s	10.24 Gb/s
Option	7	7
Frame (bits)	128	2 x 128
Header (bits)	2	2+2
Coded header	no	no
User field (bits)	116	232
Code (bits)	10	20
16-bit multiplicity	7.250	14.5
Remainder bits	4	8
User Bandwidth (GHz)	4.64	9.28
# eLinks groups (16 bit)	7	7
eLinks bandwidth (MHz)	160/320/640	320/640/1280
#eLinks	28/14/7	28/14/7
EC bandwidth (MHz)	80	80/160
IC bandwidth (MHz)	80	80/160
Unassigned bits	0	4
Corrected (bits)	5	2 x 5
Efficiency	91%	91%