FIC

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CEA/DSM/DAPNIA/SPP
Original FIC

STT

nk

78

FIC

6 Crates

PROC

FICT/PS

nk

14

FIC

4 FICs

FI-Cyp

6

14

ALPHA

MBT

FI-Cyp

9

STT

CFT

BPS

CPS

ALPHA

MBT

μB

μC

Fi-Cyp

18

ALPHA

MBT

E_{jet}

E_{\gamma}

MUON

Cyp

200

SLIC

18 SLICs

Fi-Cyp

CAL

Cyp

10

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Original FIC (4 channels)

Finisar FRC1101 → 2 FIFOs CY7C4265 → MUX → Hot Link CY7B923 → Fo driver AMP 269052 → Fo

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4 * 32K * 16b

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Original FIC Price
(in French Francs)

- 4 Optical receivers = 32 KF
- 8 Fifos 16K*16b = 7 KF
- Other components = 6 KF
- Total for one unit = 45 KF

- Total (24 units) = 1 MF
FIC Plus (4 G-Link)
Prices for FIC Plus

- Optical receivers = 32 KF down to 5 KF
- Fifos = 11 KF up to 28 KF
- Other components = 4 KF
- Total for 4 * G-link = 47 KF
- Total for 8 * Fi-Cyp = 27 KF
- Total for 16 * Cu-Cyp = 37 KF
- Total (52 units) = 2 MF
Overall Price Difference

- Suppress duplicate fifos = 170 KF
- Suppress serial links = 100 KF
- Suppress extra MBT's = ??

- Total > 250 KF
Schedule

- Demonstrator → May - October 1998
- Prototypes and Test set-up → Nov. 98 - May 99
- Production → June - December 99
Demonstrator aim

- Familiarize with new optical links
- Test proposed components
- Verify interface specification
- Start test bench software
Block Diagram of FIC Demonstrator System

TRANSMITTER CARD

G-link

Fi-Cyp

RECEIVER CARD

VME CONTROL
Transmitter Card for FIC Demonstrator

- FIFO 8K*18b CY7C4255
- FIFO 8K*9b CY7C4251
- Control
- MUX
- Finisar FTC1101
- G-Link Fiber
- Hot Link AMP 269052
- Fi-Cyp Fiber

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