

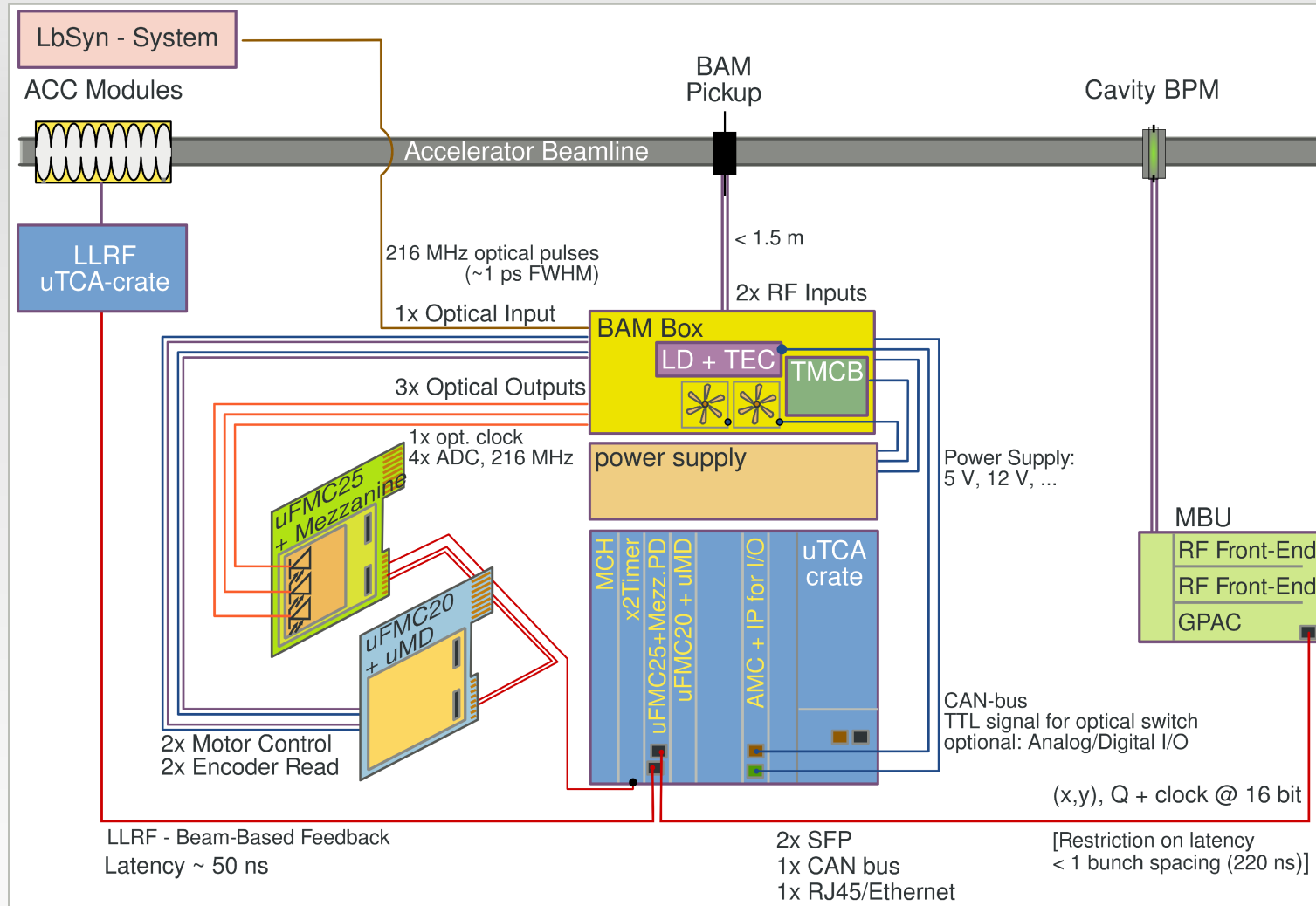
## Electronics for the BAM

Bunch Arrival-Time Monitors for the  
European XFEL

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# BAM Box



# Timeline until end of 2013: Installations at FLASH

## ▪ **Debugging + basic firmware**

- on-board: ADC clock gen., laser pulse sampling, signal quality **start:** now
- board management within crate (MMC) time required ~ 4-5 weeks
- communication between boards

## ▪ **Required for first tests (in synch hutch) & BAM specific firmware development:**

- MTCA crate (+ CPU,Disk, MCH, PS, xtimer) → **reserved** **start:** w/o beam mid of July
- DFMC-DSBAM + FMC25 (debugged version) w/ beam mid of Aug.

## ▪ **Required for first implementation in FLASH tunnel - 14ACC7 prototype:**

- 9U MTCA crate (+ CPU,MCH,xtimer) → **open: timing signal**
- DFMC-DSBAM + FMC25 **planned:** installations mid of Aug.
- DFMC-MD22 + FMC20
- timer2ttl converter box
- AMC w/ CAN-bus

## ▪ **Required for upgrade of existing 3x BAMs at FLASH:**

- MTCA crate (+ CPU,MCH,x2timer) **planned:** as soon as servers ready
- DFMC-DSBAM + FMC25
- DFMC-MD22 + FMC20