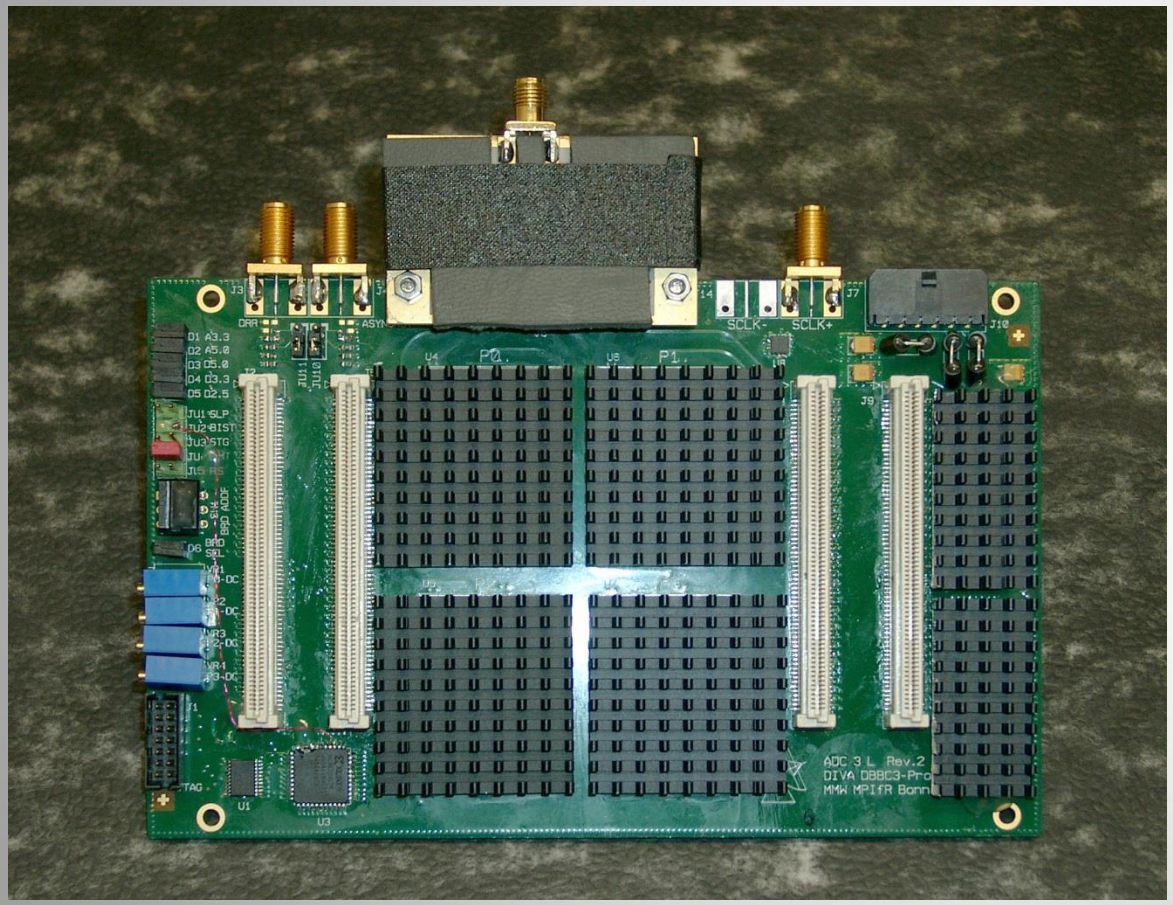
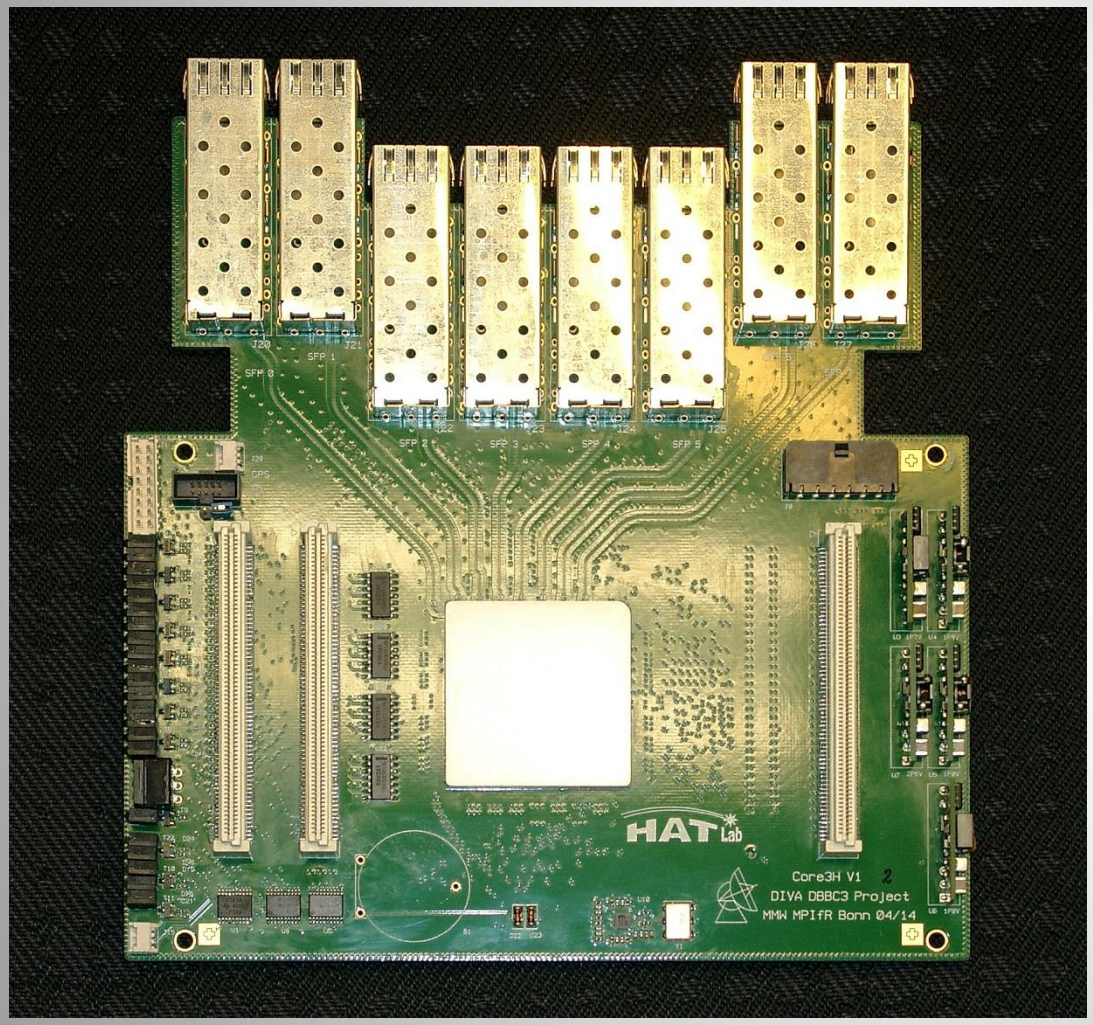
DBBC3

ADB3L



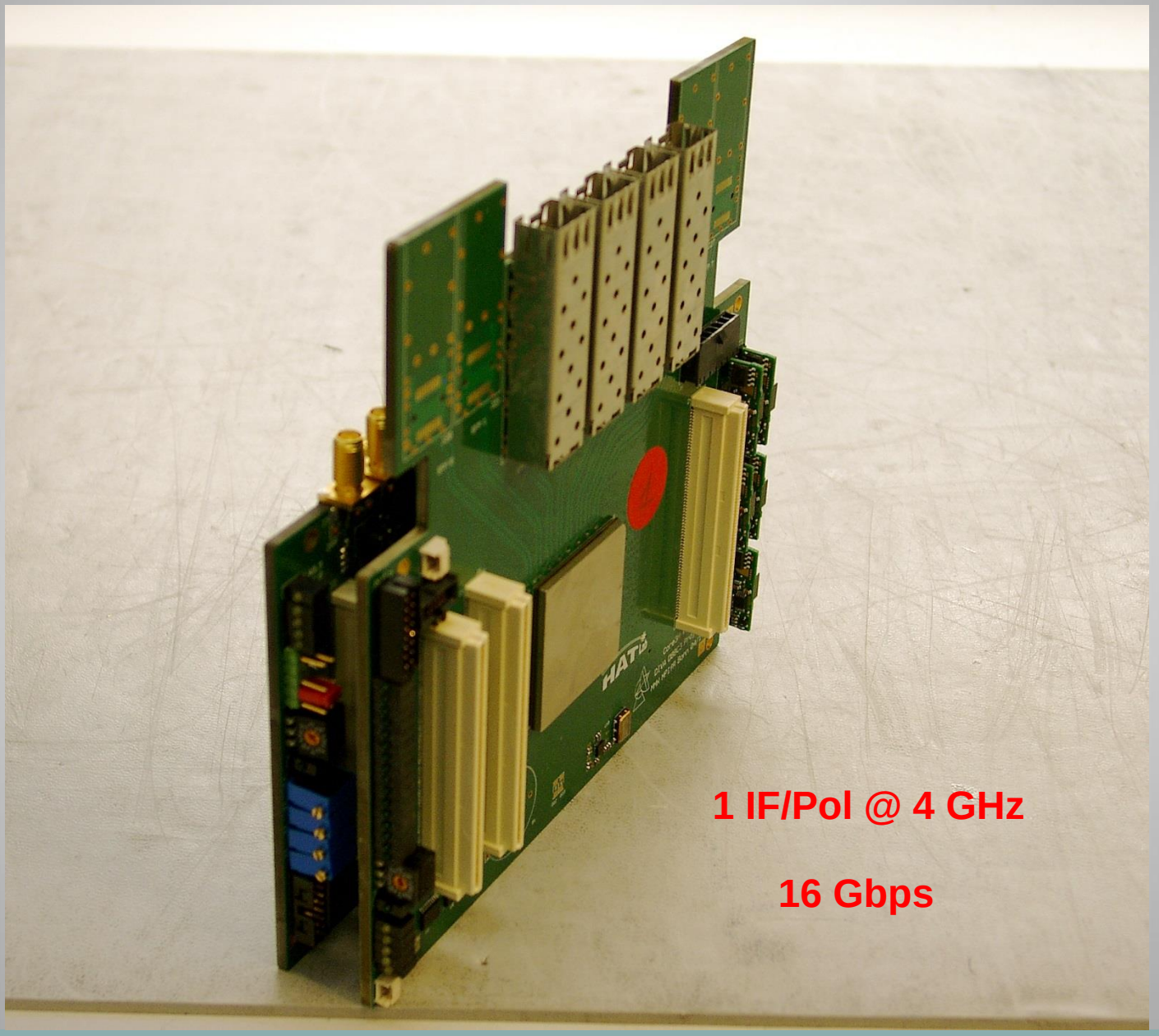
- Number of IFs: **1 - 4**
- Equivalent Sample Rate IF: **8 GSps**
- Instantaneous bandwidth: **4 GHz**
- Sampling representation: **10 bit**
- Real/Complex Sampling
- Compatibility with existing DBBC

CORE3H

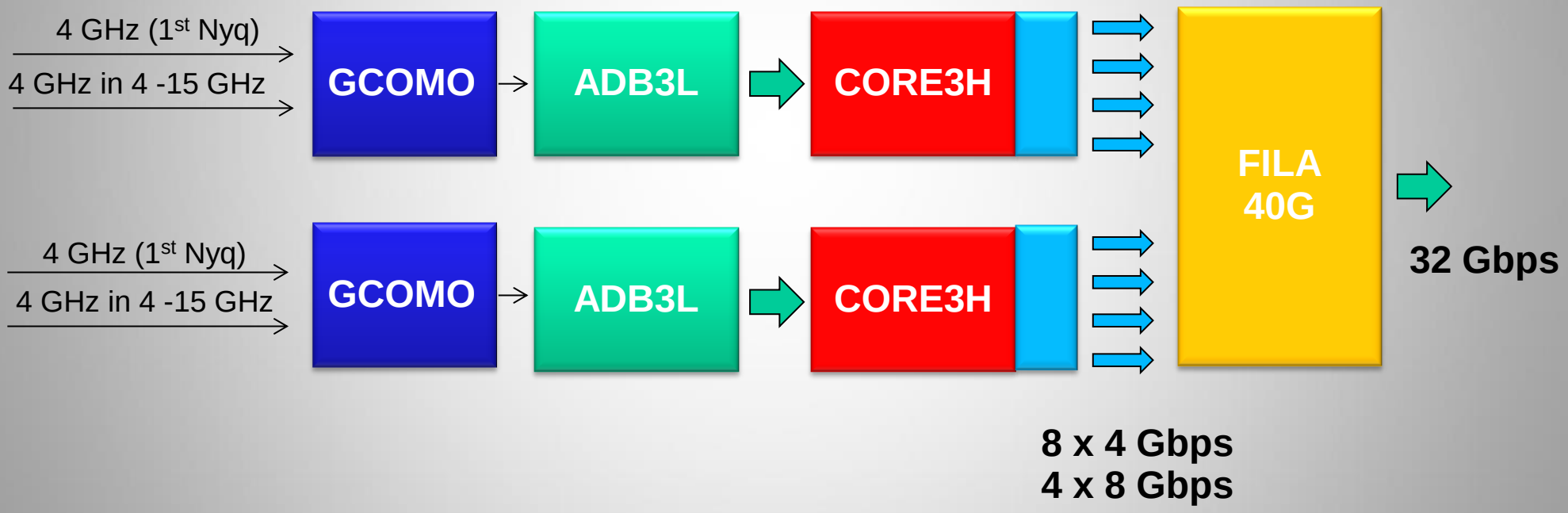


- Input bus: **HSI & HSI2**
- Input sampling representation: **8-10 bit**
- Input bandwidth : **1 x 4 GHz, 2 x 2 GHz,**
- **4 x 1 GHz**
- Processing capability: **DDC, PFB, DCS**
- Output: **8 x 10GE SFP+**
- Inter-board bus: **8 Input 10GE SFP+**
- Compatibility with existing DBBC environment

ADB3L+CORE3H



DBBC3L-2L2H Architecture




D B B C 3
EUROPEAN
NETWORK
HAT Lab

DBBC2

HAT-Lab Batch 7 – production and delivery 2015

DBBC2 Warkworth3 (New Zealand)

DBBC2 Shanghai2

DBBC2 Urumqi

DBBC3L Upgrade kit APEX

DBBC3L Upgrade kit PicoVeleta

DBBC3L Hobart

HAT-Lab Batch 8 – production and delivery 2016

DBBC2 Irbene2

DBBC2 SRT2

DBBC3L-EVN Onsala

DBBC3L-EVN Yebes

DBBC3L-VGOS Onsala1

DBBC3L-VGOS Onsala2

DBBC3L-VGOS Ny Alesund1

DBBC3L-VGOS Ny Alesund2

EVN Station	DBBC status	Comment
Noto	Available (4 CORE2)	FILA10G available
Effelsberg	Available (4 CORE2)	FILA10G available 2
Onsala	Available 2, DBBC3 under construction	FILA10G available
Yebes	Available 3 units (4 CORE2), DBBC3 in production	FILA10G available
Wettzell	Available 4 units (4 CORE2)	FILA10G available, second in production
Torun	Available (2 CORE2)	
Metsähovi	Available (4 CORE2)	FILA10G available
Hartebeesthoek	Available 3 units (4 CORE2)	FILA10G available 2
Medicina	Available (4 CORE2)	FILA10G available
Westerbork	Available (2 CORE2)	
Jodrell Bank	Available (4 CORE2)	in production
Cambridge	-	
Svetloe	-	
Zelenchukskaya	-	
Badary	-	
Urumqi	Available in February 2016 (4 CORE2)	FILA10G available
Shanghai	Available 2 units (4 CORE2)	FILA10G available 2
Arecibo	-	
Robledo	-	
SRT	Available (4 CORE2), second unit in production	FILA10G available
KVN	-	FILA10G available 4
Ventspils	Available (4 CORE2), second unit in production	in production 2

FIRMWARE in beta version or development

DBBC2

- **DDC v106:**
  - **new mode ‘geo2’ with all 16 USB in VSI1 and all 16 LSB in VSI2**
  - **new mode ‘geo3’ with all 16 USB & LSB in both VSI1 and VSI2 sign only**
  - **new cont_cal options (20 Hz, static on|off)**
- **PFB v16:**
  - **cont_cal (with 4 CORE2 system for double polarization)**

DBBC3

- **DSC @4 GHz**
- **PFB @ 256 MHz**
- **DDC @ 128-64-32-16-8 MHz**