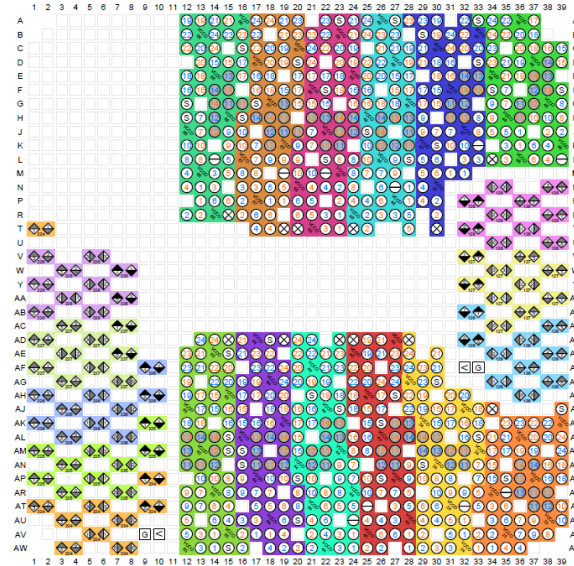


# XC Commercial Package Transceiver Locations

## CNA1509 (XCKU060)



CNA1509 Package – XCKU060 I/O Bank Diagram

ug575\_r3\_17\_100715

### ➤ The ceramic package (CNA1509) pinout for Space Product compatible with A1517 configuration

- Difference being additional two pins in each corner removed from Ceramic Column Grid Array package for shock, vibe, and handling considerations
- Ceramic package loses 2 additional solder columns in each corner
  - 1 XCVR
  - 4 HP/IO
- In the case of the A1517 => A1509 I/O pins to avoid or not use:

Bank/Quad	Pin	Note
Quad 224	AV1	MGTHRNX1, thus also AV2 (MGTHRXP1) – Relocated to T1/T2
Bank 25	AV39	IO_L8N, thus AV38 (IO_L8P) unusable as differential pair
Bank 25	AV38	Single-ended IO
Bank 46	A38	(IO_L17N), thus also A37(IO_L17P) unusable as differential pair
Bank 46	B39	(IO_L16N), thus also C38(IO_L16P) unusable as differential pair

[UG575](#) UltraScale and UltraScale+ FPGAs Packaging and Pinouts

# Alpha Data Space Development Kit

## ADA-SDEV-KIT

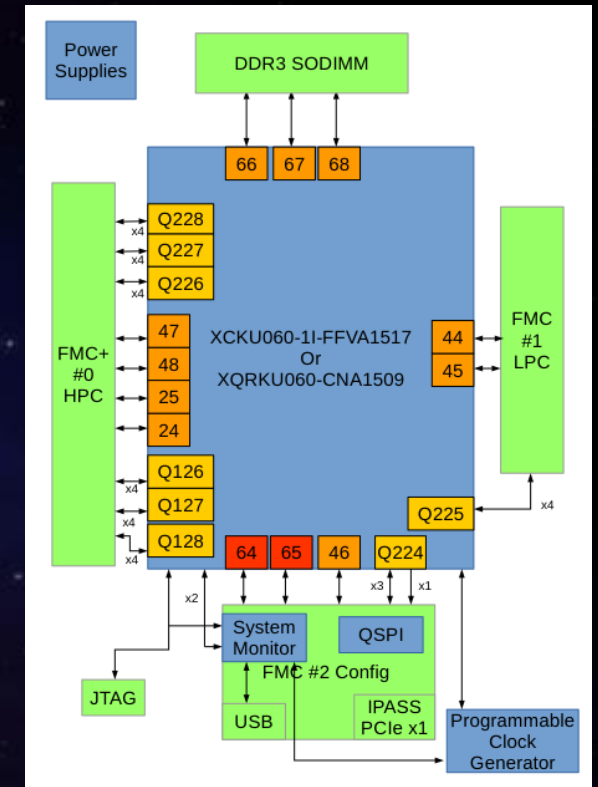
### Development Kit for XQRKU060

#### Modular design with

- Commercial XCKU060 in -1 speed grade
- XRTC compatible Configuration Module
- Two FMC Sites
- DDR3 DRAM
- System Monitoring
- Space-Grade Compatible Power Regulators

#### Product Details



[www.alpha-data.com/sdev](http://www.alpha-data.com/sdev)







### Introduction

- **Alpha Data Parallel Systems Ltd.** (Edinburgh, UK)  
Product design, manufacturing, worldwide sales (excl. USA)  
ITAR-free projects
- **Alpha Data Inc.** (Golden, CO)  
Product design, manufacturing, USA sales  
ITAR projects
- Commercial Off-The-Shelf (COTS) Boards  
High-End Embedded (A&D, Space)
- Established 1993
- ISO9001 Certified
- **Xilinx Exclusive**

### 24hr Worldwide Sales & Support



**USA: Golden, CO**  
Alpha Data Inc.  
- Sales  
- Design  
- Tech Support

**UK: Edinburgh**  
Alpha Data Ltd  
- Sales  
- Design  
- Tech Support

**Japan:**  
MISH International  
- Sales & Support

**China: HK**  
Comtech (HK) Ltd  
- Sales & Support

**Italy:**  
Eurolink Systems  
- Sales & Support

**Israel:**  
Nisko Technologies  
- Sales & Support



[Datasheet](#)



Manual



Ref Designs