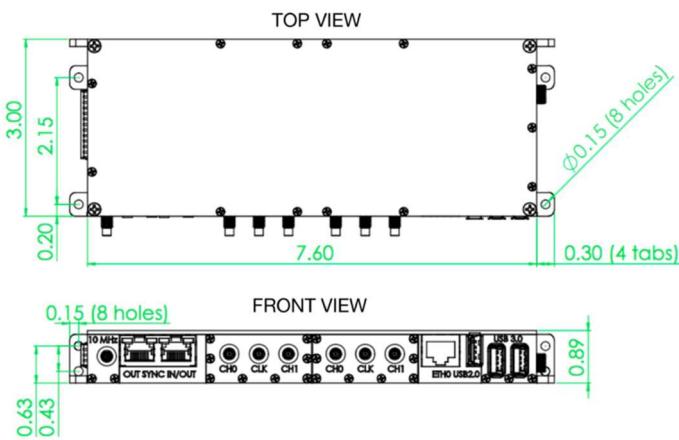


## Features

- Reconfigurable at the hardware, firmware & software levels and on a pulse-to-pulse basis
- Object oriented architecture for simplified integration, configuration and operation
- Family of plugin mezzanine cards provides broad range of waveform generation and digital receiver / signal processing capabilities
- Dual-core Arm Cortex-A9 processor (1GHz) with application framework for run-time deployment of user applications within ARENA
- Kintex 7 FPGA fabric implements digital receiver/signal processing, waveform generation, and timing & control
- Enables seamless integration into networks
- Provides sustained data rates > 20 GB/s
- Local USB-3 storage with data rates
- Modular and scalable solution
- Ultra-low SWaP & conductive cooled
- Cost effective solution

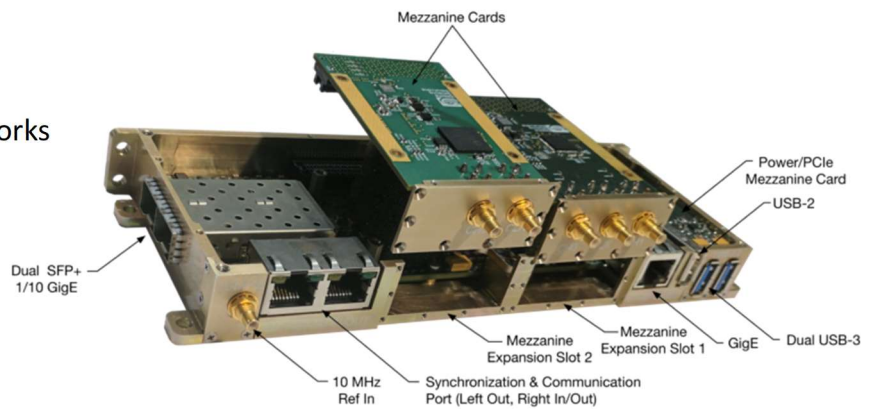
## Power / Mechanical

- Power: 7-32 VDC (6-20W)
- Size: 3.0in x 7.6in x 0.895in
- Weight: 14 oz
- Conduction cooled operations from -10°C to 50°C and up to 75kft altitude
- Vertical or horizontal mounting



## Interfaces

- 1 Gigabit Ethernet (GigE) Network Interface (RJ-45)
- Two 10 Gigabit SFP Network Interfaces
- Two USB-3 Host Interfaces
- USB-2 Host Interface
- 10 MHz 50Ω coaxial connector (reference clock)
- ARENA Intra-module Synchronization Interfaces (enables mode and phase synchronous operation of multiple ARENAs, provides PPS for real-time clock and serial communications)



## Mezzanine Interfaces

### PCIe/Power Mezzanine Slot

- Standard module 7-28VDC input
- PCIe Dual USB-3 Interface

### Mezzanine Expansion Slot

- Supports up to two single slot mezzanine (plugin) cards or one dual slot mezzanine (plugin) card
- Plugin cards supported:
  - Waveform generation
  - Digital receiver processing
  - Digital and analog I/O
  - Rapid development of custom cards

