

## Ensemble 3000 Series OpenVPX SWaP-Constrained EO/IR Application

### Mission

Detect, track, and designate objects for Special Operations using unmanned EO/IR system.

### Problem

Platforms are getting smaller, while the volume of incoming sensor data is growing exponentially as EO/IR technology continues to advance. Deployment of the processing solution close to the sensor requires a high degree of ruggedization. As multiple I/O streams, data-rate increases, and system requirements to decrease size, weight, and power (SWaP) become manifest, the necessary system capabilities are difficult to achieve.

### Solution

The Ensemble™ 3000 Series provides dense processing solutions that have been developed in accordance with OpenVPX™ design principles. They have been specifically designed for SWaP-constrained applications, with direct processor-to-processor connectivity and upgrade options for bandwidth growth. Multiple physical planes for data, control, and system management provide a robust, scalable system solution.

Ensemble 3000 Series OpenVPX modules are available at various levels of ruggedization, including air-cooled and conduction-cooled formats. These products can be flexibly combined and configured to deliver a complete, standards-driven, scalable solution that can handle the most challenging SWaP-constraint EO/IR applications.



### Components

Ensemble 3000 Series  
Open VPX HCD3200 Module  
**Quantity: 1**



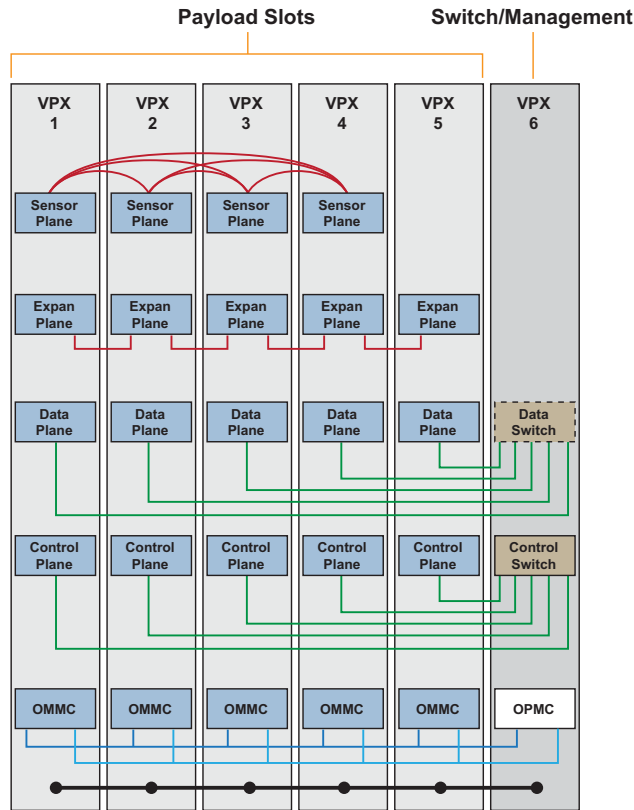
Ensemble 3000 Series  
OpenVPX SCH3000 Module  
**Quantity: 1**



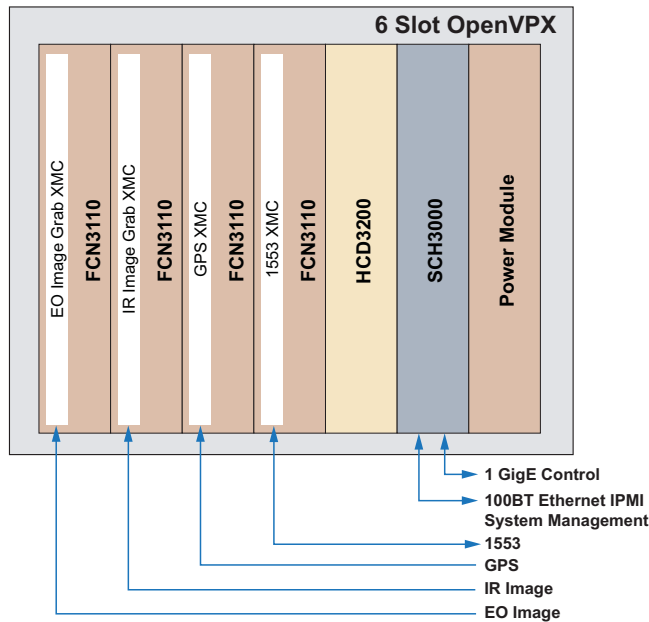
Ensemble 3000 Series  
OpenVPX FCN3110 Module  
**Quantity: 4**



## System Configuration



## Chassis Elevation



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