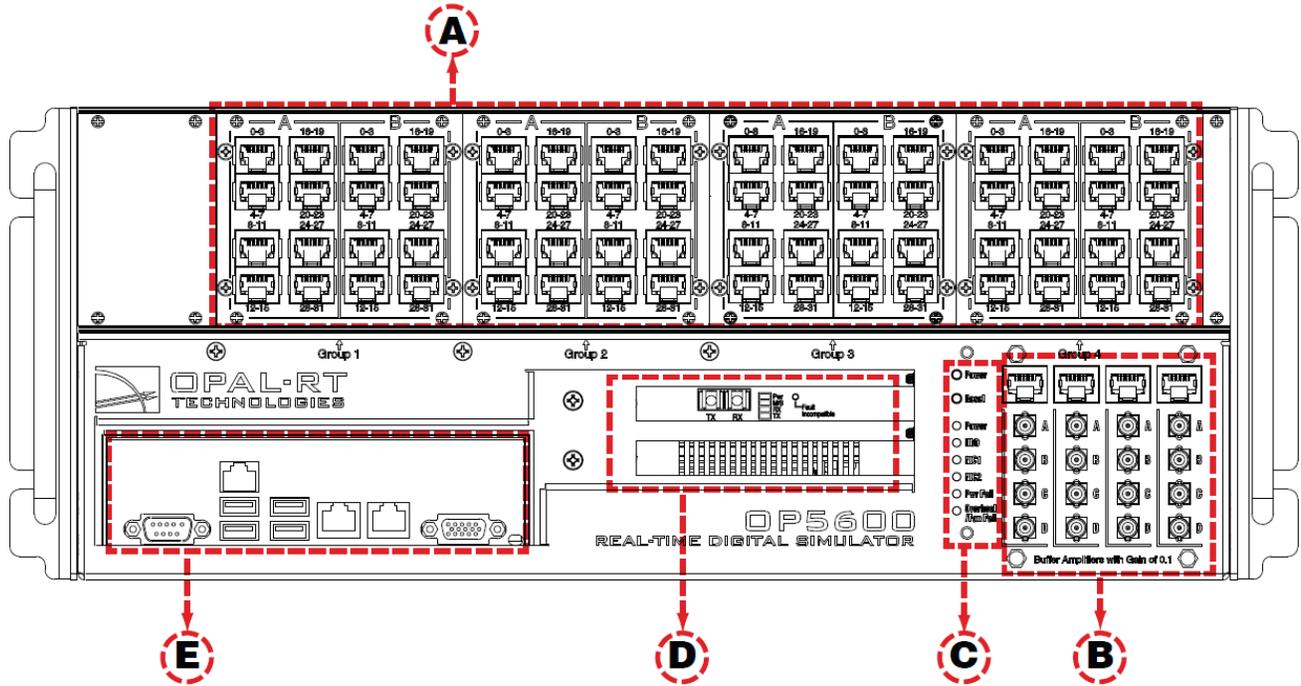# OP5650 Front Connectors

The interfaces on the front of the OP5650 Artix 7 (OP5143) include 4 RJ45 monitoring panels.

A: 4 panels of RJ45 connectors provide connections to monitor output from mezzanine I/O Each connector is linked to front and back mezzanines on the carrier board. Analog mezzanines (channels 0-16) use only the first column of connectors. Digital mezzanines use both columns (channels 0-15 in the first column and channels 16-31 on the second column of connectors). See the mezzanines connector image and the RJ45 pinouts for more detailed information.

B: Monitoring RJ45 connectors with mini-BNC terminals: RJ45 cables connect from a channel on an RJ45 panel (B) to one of four RJ45 monitoring connectors (C). Mini-BNC connectors allow for quick cable connections to monitoring devices (such as an oscilloscope). See OP5650 Connecting Monitoring Devices for details.

C: Target computer monitoring interface. Two push-buttons include **POWER** in top position to start the Target computer and **RESET** in the bottom position to reset the Target There are 6 LED indicators:

LED	NAME	Description
Green	Power	On indicates that the unit is powered up.
Green	HDD	On indicates that the hard disk drive is operating.
Green	NIC1	On indicates that network port 1 is in use.
Green	NIC2	On indicates that network port 2 is in use.
Red	Power Fail	On indicates a power fault.
Red	Overheat/Fan Fail	On indicates either that unit has overheated or a fan fault.

D: Fiber optic synchronization board (top slot) and optional PCIe connector slot (by default, the lower space is covered by a blank plate if there are no optional PCIe boards).

E: Standard computer connectors (left to right): mouse and keyboard, USB ports, monitor, network ports. Although use of these connectors is optional but not required to use the OP5650, one network port is required for network