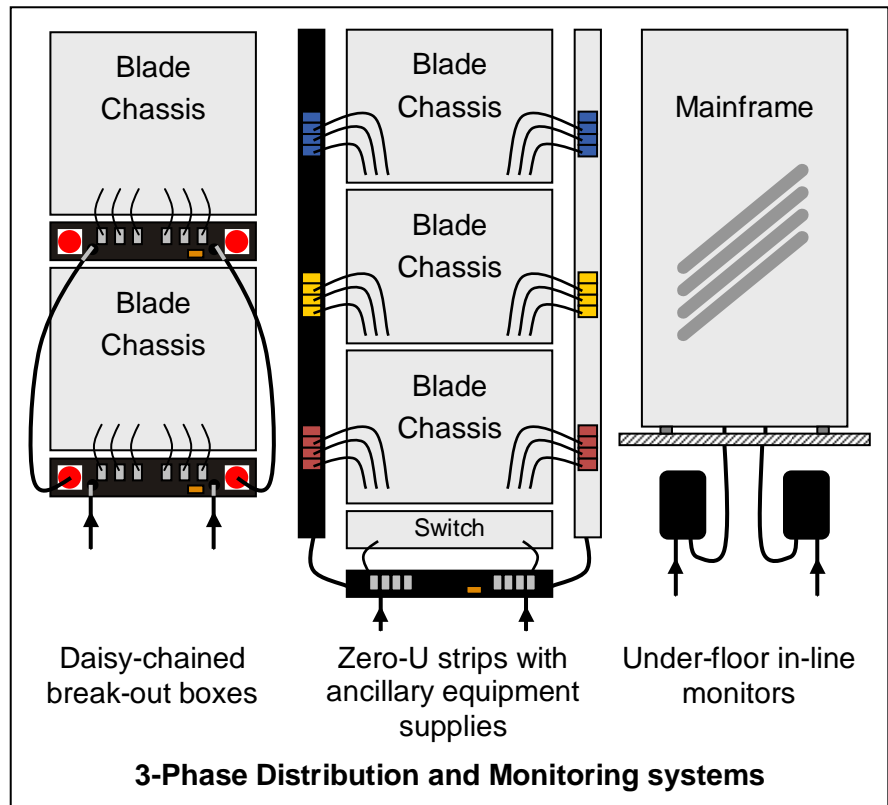


Monitoring 3-phase installations

Equipment that requires a three-phase supply is almost by definition power hungry and mission critical at the same time. Such equipment ranges from blade chassis installed in 19" cabinets through to large freestanding mainframes. Although this equipment is likely to have its own on-board monitoring there is a great advantage, particularly in facility planning, in monitoring everything within the room in one place instead of half a dozen different software packages. With one tool it is possible to see where power is being used and how temperatures are affected at different times of the day at a whole room level or at individual cabinet or zone levels.



IntelliData Systems have developed a range of 3-phase monitoring products and software tools that simplify the task of installing 3 phase equipment in a fully monitored environment. In a typical blade chassis installation, each blade will require two 3-phase supplies arranged in the form of six IEC C19 (16 amp) sockets. For one or two blade chassis in a cabinet, the solution may be rack-mounting break-out boxes such as the Intelli3Phase Dual. This unit takes two 3-phase feeds on 5-pin commandos and presents them on six individually monitored C19 outlets and (optionally) 5-pin commandos to daisy chain to the next break out. These boxes will complement the standard single phase zero-U strips used to supply other equipment in the rack.

In a high density cab where a greater quantity of 3-phase C19 outlets are required and rack space is at a premium, a 3-phase zero-U strip can deliver multiple sets of C19 3-phase outlets together with some additional C13 (10 amp) sockets for ancillary equipment. As with the rack-mounting solution, each C19 socket can be individually power monitored.

Standalone equipment such as mainframes may have no internal space for monitoring equipment and the solution is to use in-line monitoring installed above the cabinet, or below the floor. IntelliDataSystems offer such in-line devices (with up to 63 amp capacity) that include temperature and humidity probes that can be remotely mounted within the monitored cabinet.

Acquiring detailed data from what could be hundreds or thousands of monitoring devices would be meaningless without the software tools to make the data manageable. The IntelliManager software supports a drill down system where room status can be assessed at

a glance on a floorplan with the ability to step down to see cab level figures (regardless of the kind and quantity of equipment in the cabs) and then go further and examine individual outlet current draws within the cabinet. The system also allows alternative ways of looking at the data – eg to see totals for each phase or each PDU, or to measure aggregates for different cab owners and make projections for future expansion based on real numbers .

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