Technical Bulletin

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Subject	Central Controller Selection
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When selecting Panasonic Central Controllers, you need to consider whether to allow for a **CZ-CFUNC2** which is an expansion pack allowing the transfer of more data packets. Typically, a Central Controller is designed to control up to 64 fan coils or 3 condensing units. If any of these are exceeded, then a CZ-CFUNC2 is required.

In addition to the above, any BMS adapter and Central Controller combination will require a CZ-CFUNC2 to allow for the additional data packets from the BMS.

Typical combinations are below:

1) Central Controller, less than 128 fan coils/60 Condensing Units, no BMS
   a. CZ-256ESMC3 x 1

2) Central Controller, more than 128 fan coils/60 Condensing Units, no BMS
   a. CZ-256ESMC3 x 1
   b. CZ-CFUNC2 x 1

3) Central Controller and Modbus or BACNet BMS, less than 128 fan coils/06 Condensing Units
   a. CZ-256ESMC3 x 1
   b. CZ-CFUNC2 x 1
   c. Panasonic BMS Interface x 1

4) Central Controller and any Modbus or BACNet, more than 128 fan coils/60 Condensing Units
   a. CZ-256ESMC3 x 1
   b. CZ-CFUNC2 x 3 (two for BMS buffer data)
   c. Panasonic BMS Interface x 1

5) No Central Controller, any Modbus or Bacnet BMS up to 128 fan coils
   a. CZ-CFUNC2 x 1
   b. Panasonic BMS Interface x 1

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6) No Central Controller, any Modbus or Bacnet BMS up to 256 fan coils
    a. CZ-CFUNC2 x 2
    b. Panasonic BMS Interface x 1

7) Central Controller and Trend BMS, less than 128 fan coils/60 Condensing Units
    a. CZ-256ESMC3 x 1
    b. CZ-CFUNC2 x 1
    c. Trend SIP supplied by Synapsis

8) Central Controller and any Modbus or BACNet, more than 128 fan coils/60 Condensing Units
    a. CZ-256ESMC3 x 1
    b. CZ-CFUNC2 x 3 (two for BMS buffer data)
    c. 2 x Trend SIP supplied by Synapsis

9) No Central Controller, BACNet interface only
    a. BACNet interface only x 1
    b. CZ-CFUNC2 x 0 (not required when controlled by BACNet)

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