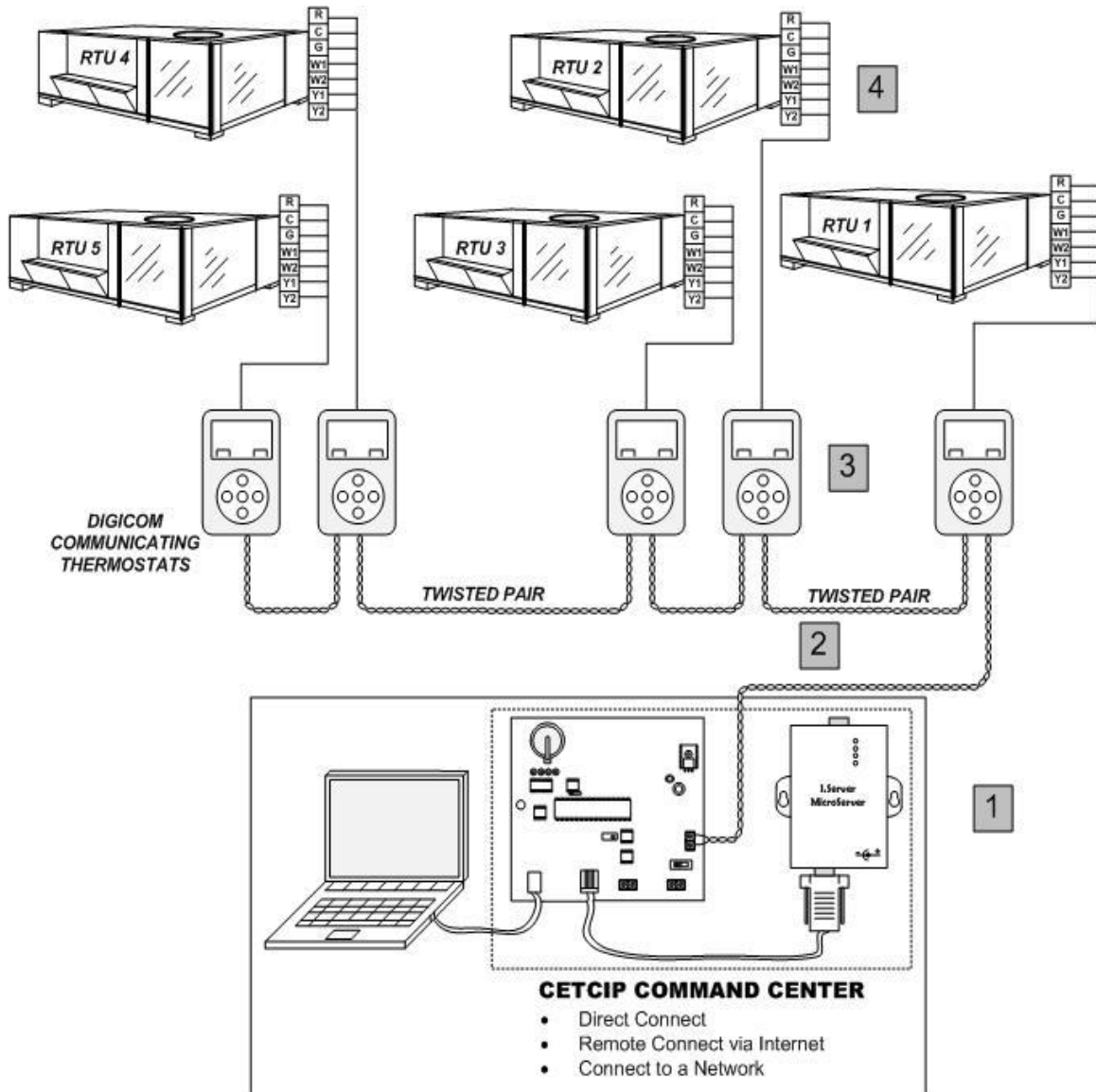# ZONEXCOMMANDER CONCEPT DRAWING

ZonexCommander is a DDC system for automating and networking new and existing stand-alone HVAC systems and mechanical devices. Gas Electric and Heat Pump HVAC units are controlled with communicating thermostats while mechanical devices are controlled with a relay device (**RLYCOM**). Each of these devices can be scheduled through the simple Windows-based *ZonexCommander* software and communicate to the Command Center via a daisy-chained 2-wire twisted pair communications link.

1	*ZonexCommander* Command Center (Part #CETCIP)
2	Twisted Pair Communications Wire (Belden #8740)
3	DIGICOM or DIGIHP Thermostat
4	Standard 18-ga. Thermostat Wiring to Unit

ROOFTOP UNITS: UP TO 20 PER COMMAND CENTER

RTU 2

R
C
G
W1
W2
Y2
Y1

RTU 2

R
C
G
W1
W2
Y2
Y1

Y1
Y2
W1
W2
G
R
C

TX
RX
TX
RX

Y1
Y2
W1
W2
G
R
C

TX
RX
TX
RX

zonex

zonex

TWISTED PAIR TO ADDITIONAL
DEVICES, IF APPLICABLE

NOTES:

1. DIGICOM THERMOSTATS POWERED
   FROM HVAC UNIT CONTROL TRANSFORMER

2. CONNECT Y2 AND W2 TERMINALS IF
   APPLICABLE ON TWO STAGE EQUIPMENT

3. TWISTED PAIR COMMUNICATION WIRE
   4,000 L.F. MAXIMUM   (Belden 8740)

NOTE: All RX communication wires must be
connected to the RX terminals. All TX communication wires must be connected to the TX
terminals. The RX and TX wires should never
intersect.

BAT

ZonexCommander

U5   U2

○ PWR

U3

U1

R12   U4

U6

RS485

USB   MODEM

S S   G B

OLAT SENSOR

DEDICATED
24 VAC 40VA