

Applications

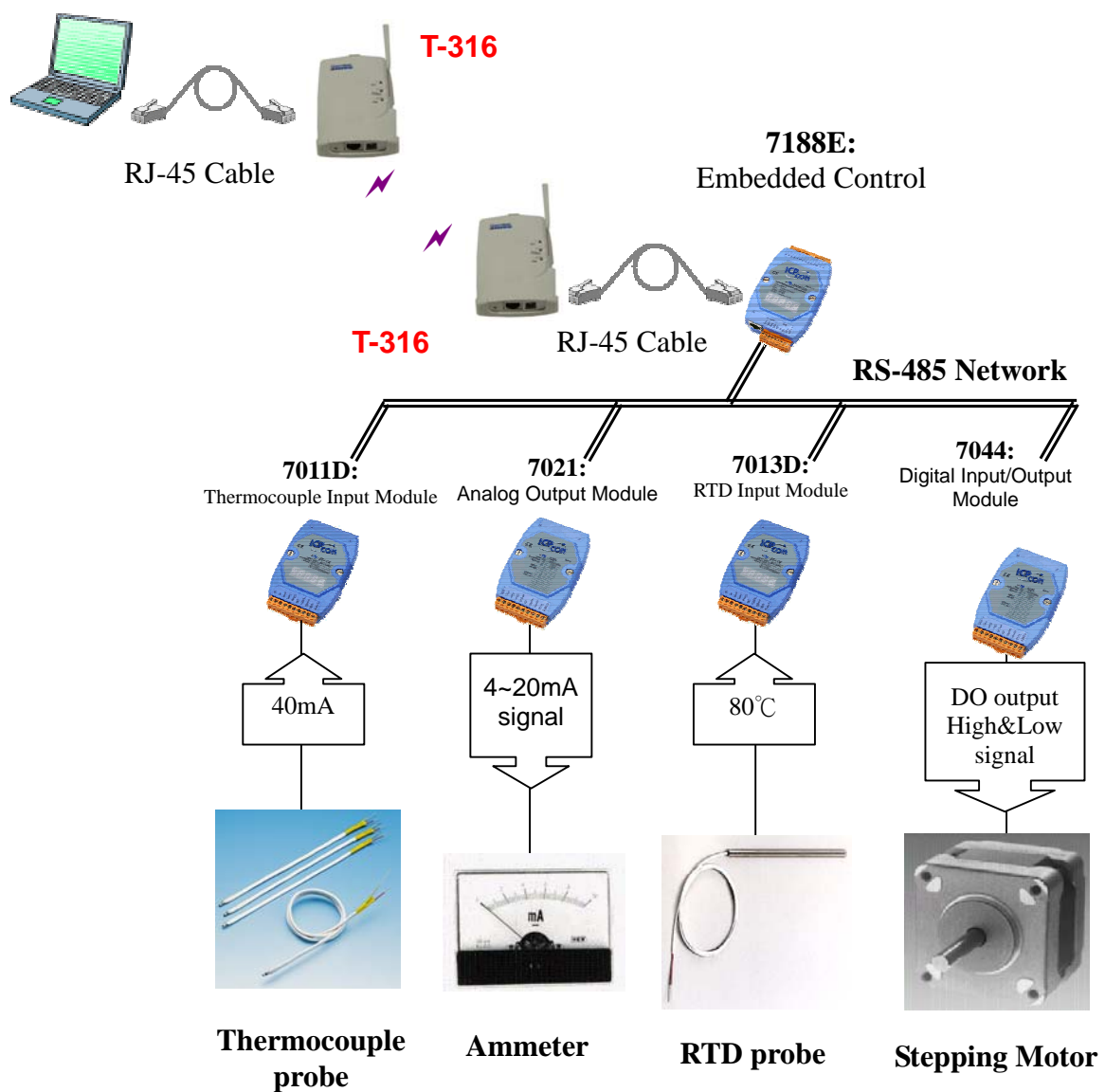
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1. Ad-hoc Mode

An Ad-hoc network is formed by a number of wireless stations (without an Access Point) communicating via radio waves. For the user, the shared resources on the wireless network appear exactly as they would on a regular wired network. The wireless operation of the network is totally transparent.

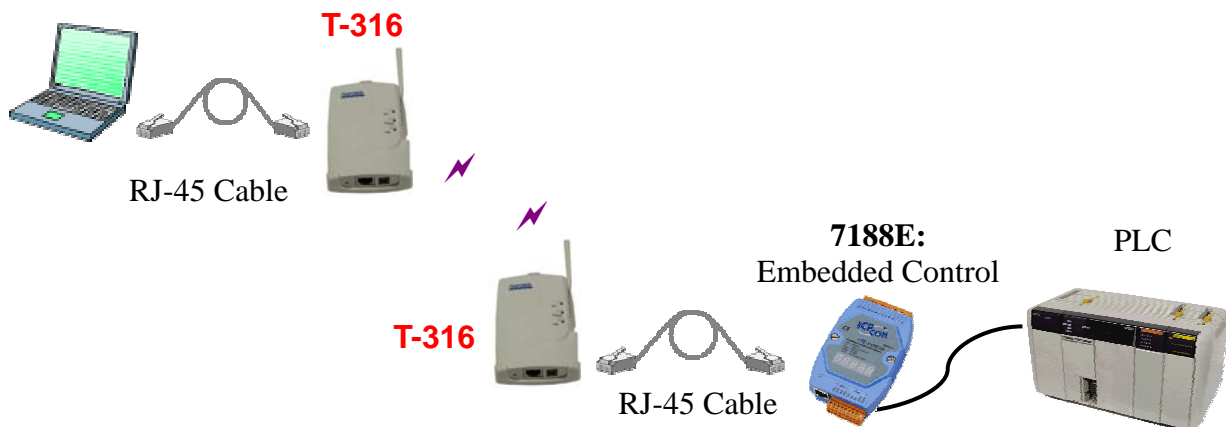
Application 1

Communication between PC and 7188E



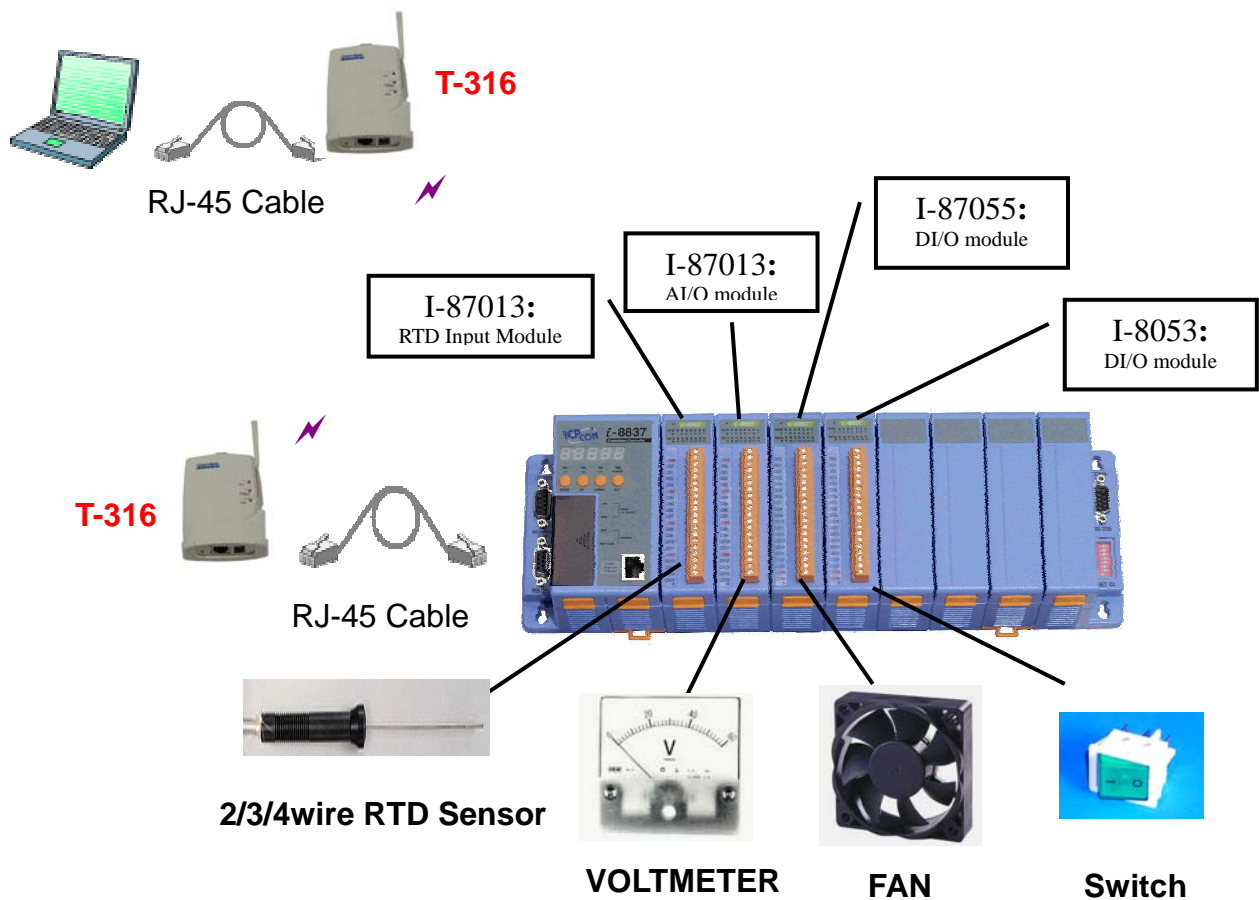
Application 2

Communication between PC and PLC



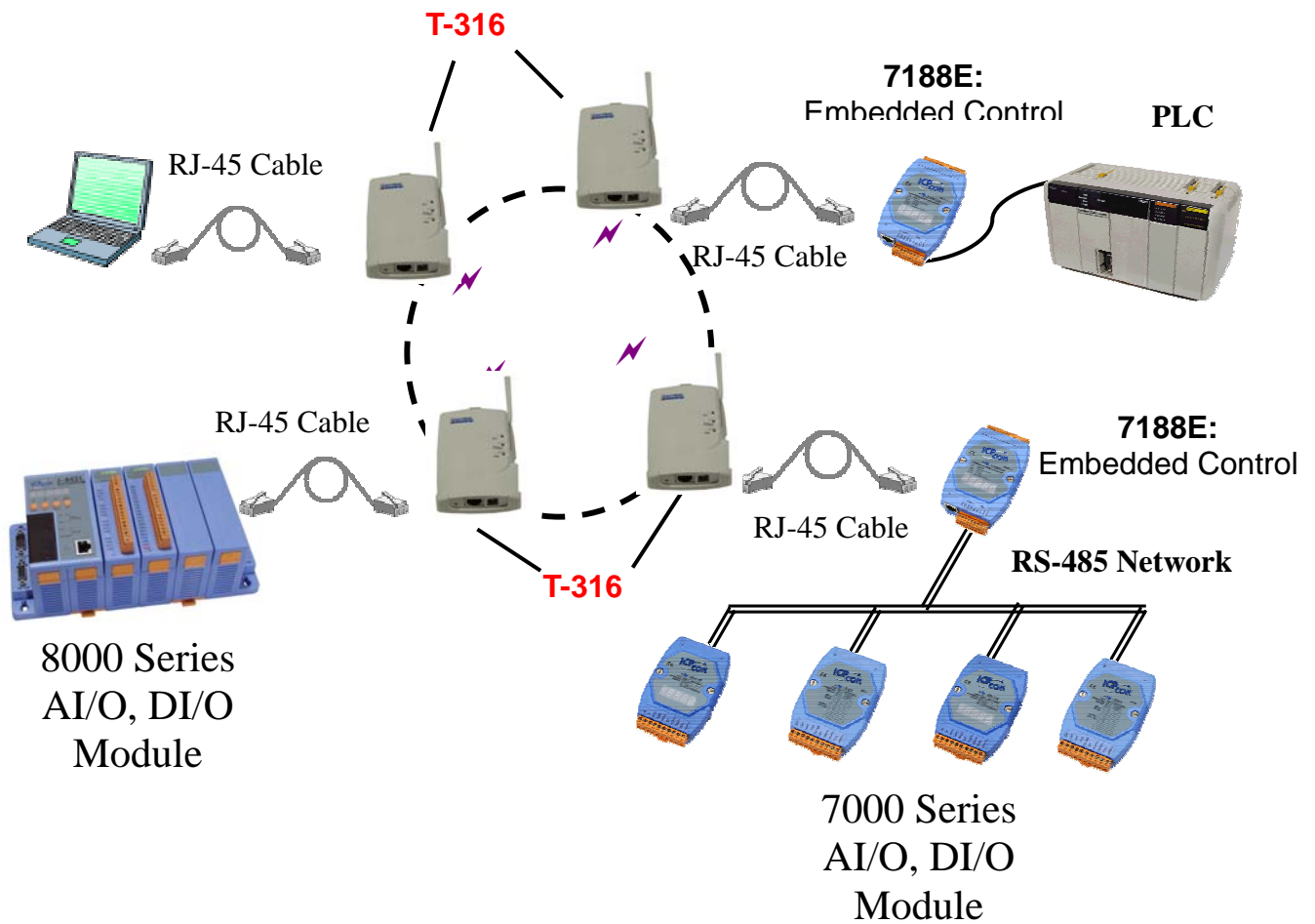
Application 3

Communication between PC and 8000 series



Application 4

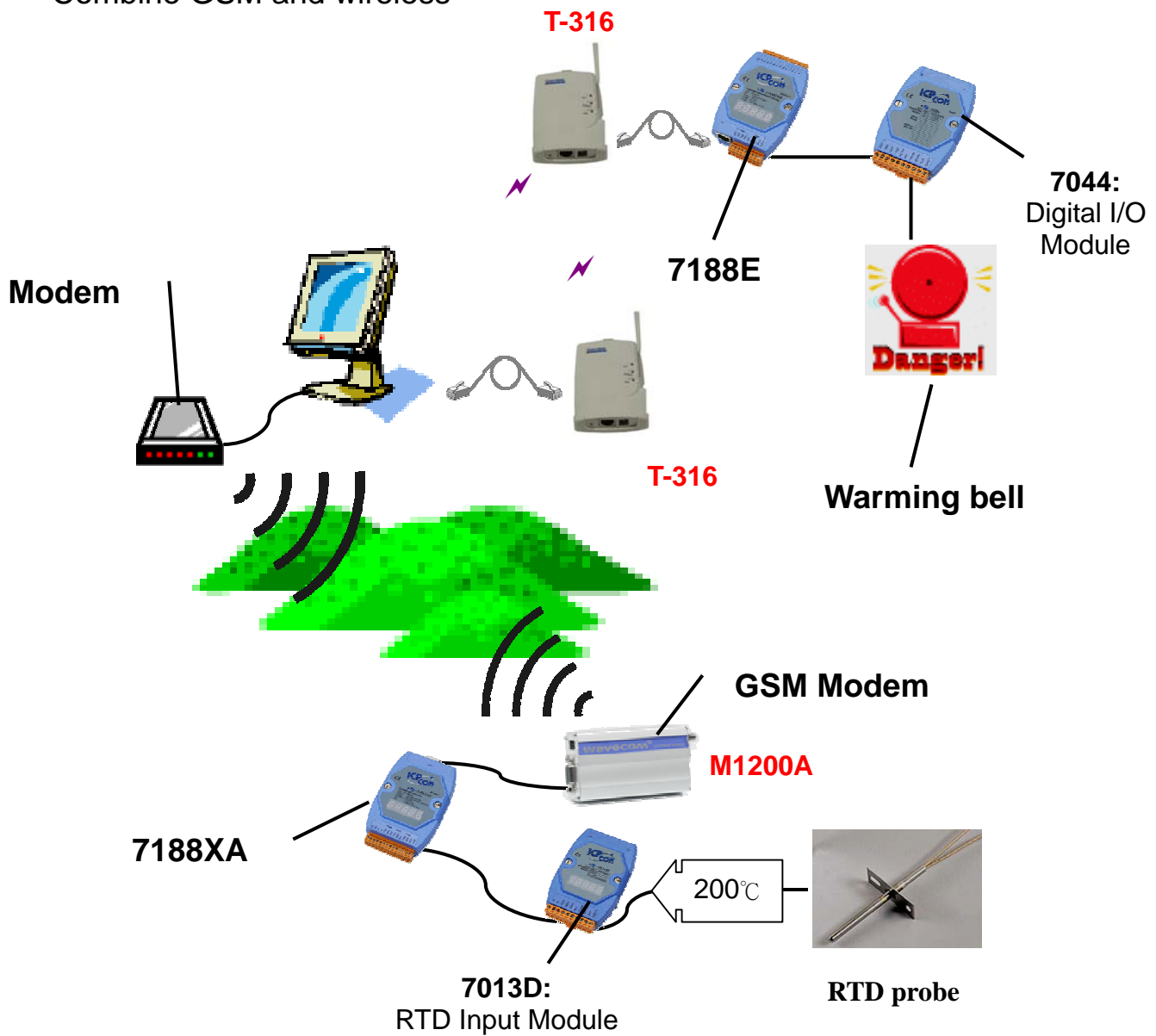
Multipoint wireless network of a short distance



The Ad-hoc mode does not support long distances transmissions. The Transmission Range between WECs is 100m (328ft) indoor (depending on the interference conditions and environment). If you require long distance transmissions, please use the Infrastructure mode and refer to the next chapter for clear description.

Application 5

Combine GSM and wireless



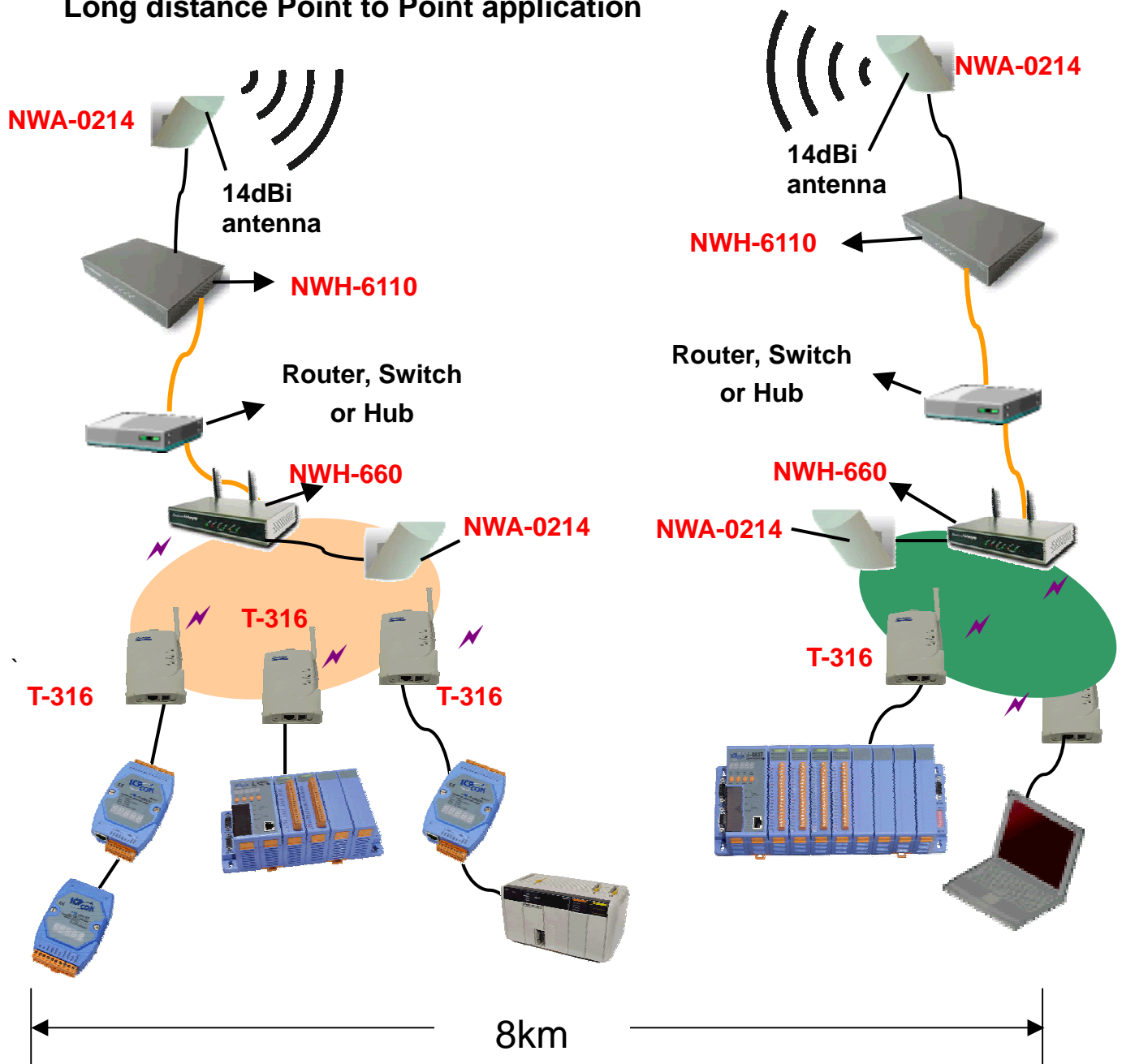
In this application, the 7188XA reads the values of the RTD sensor continuously. If the temperatures are out of the safe range, the 7188XA will send a message to the remote host through GSM modem. The host notes the emergency service for a distant location by WEC. Under normal conditions, the host also reads and sends the values of the remote device to 7188E by WEC.

Infrastructure Mode

An Infrastructure network is formed by stations and one or more Access Points (APs), with the stations within a set distance from the AP. This mode supports long distance transmissions.

Application 1

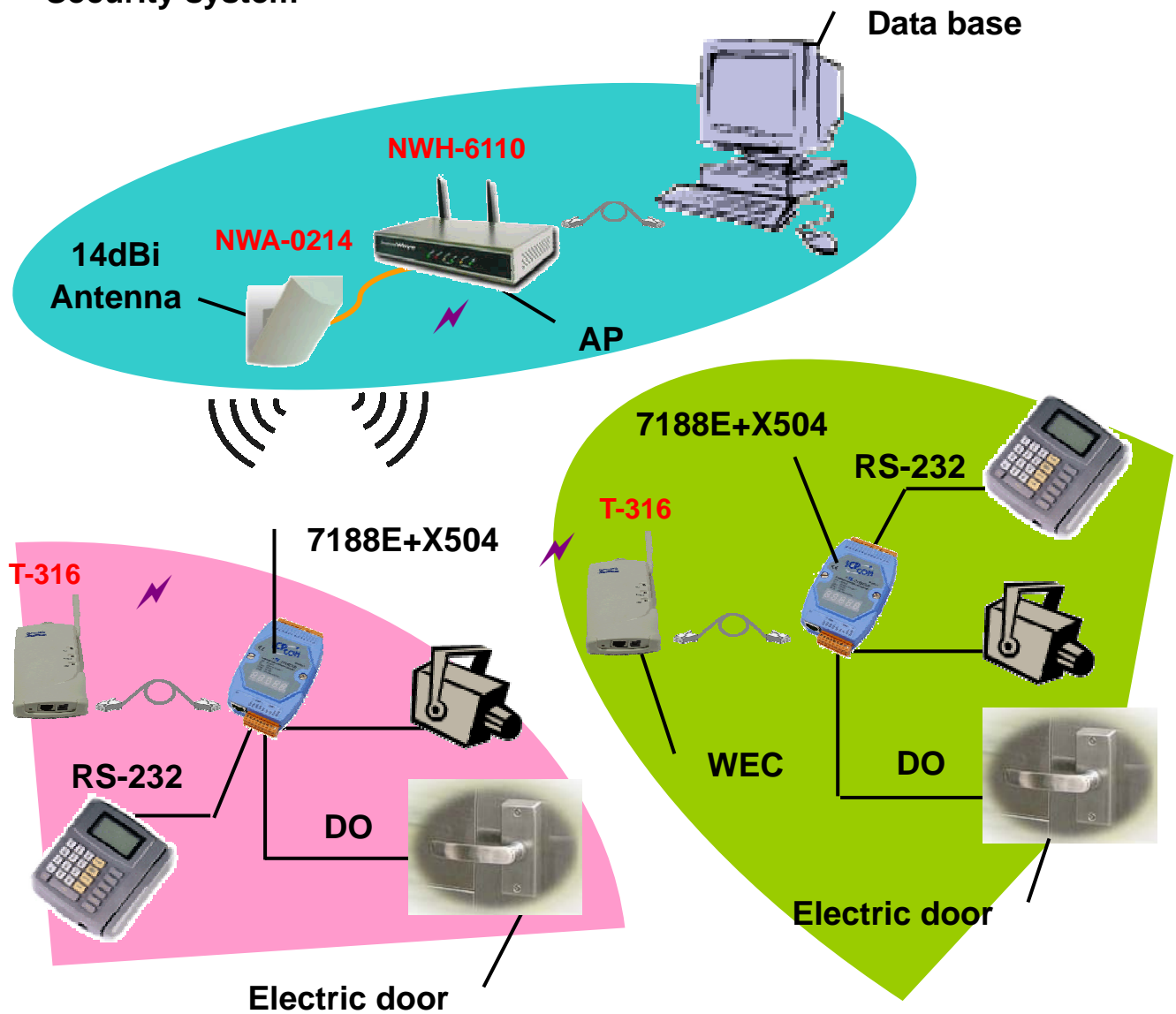
Long distance Point to Point application



Two bridges with 14dBi antennas can increase the transmission range to 8km.

Application 2

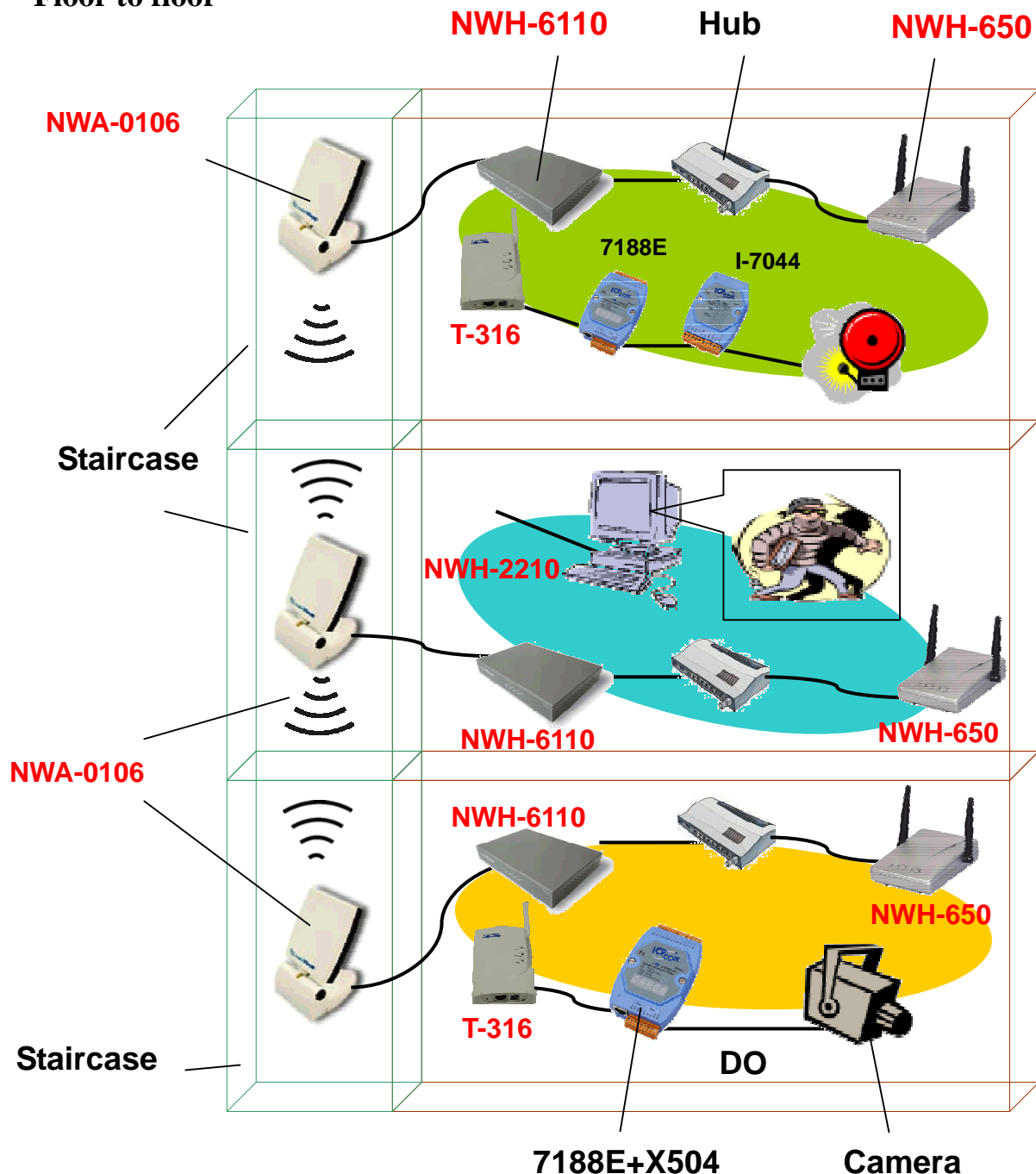
Security system



In this application, the card-reader sends messages to 7188E via RS-232. If the ID is legal, the 7188E will send a DO signal to open the door and to rotate the direction of the camera. The cameras must connect to another device to send Image-data to remote host. The host can save any data going in and out from a remote place.

Application 3

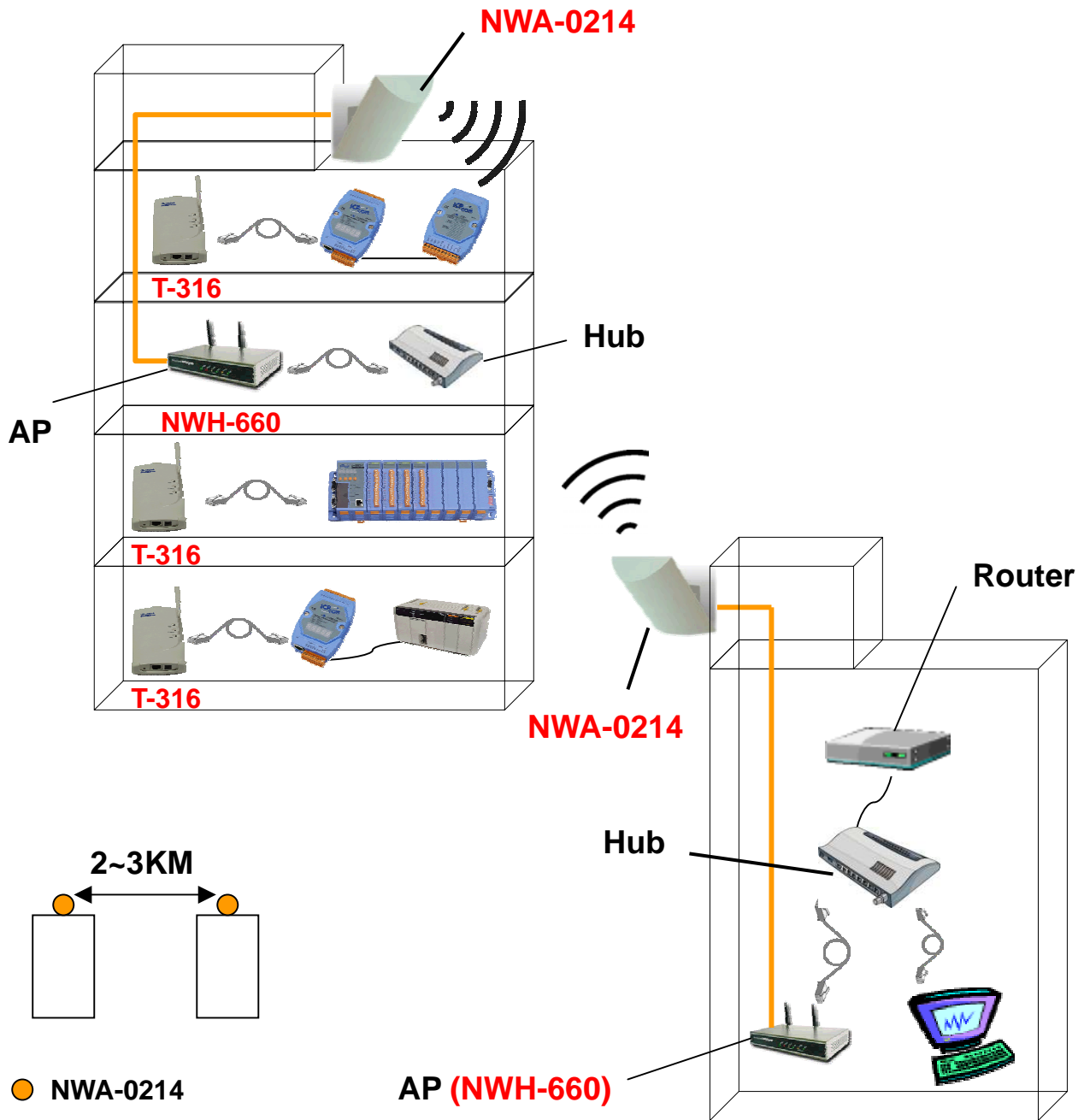
Floor to floor



In this application, the 7188E+X504 can control the angle of camera. If there is something wrong, a security officer can turn on the alarm. The image-data of the camera must be sent to host through another device. The antennas must be placed in the staircase, face-to-face.

Application 4

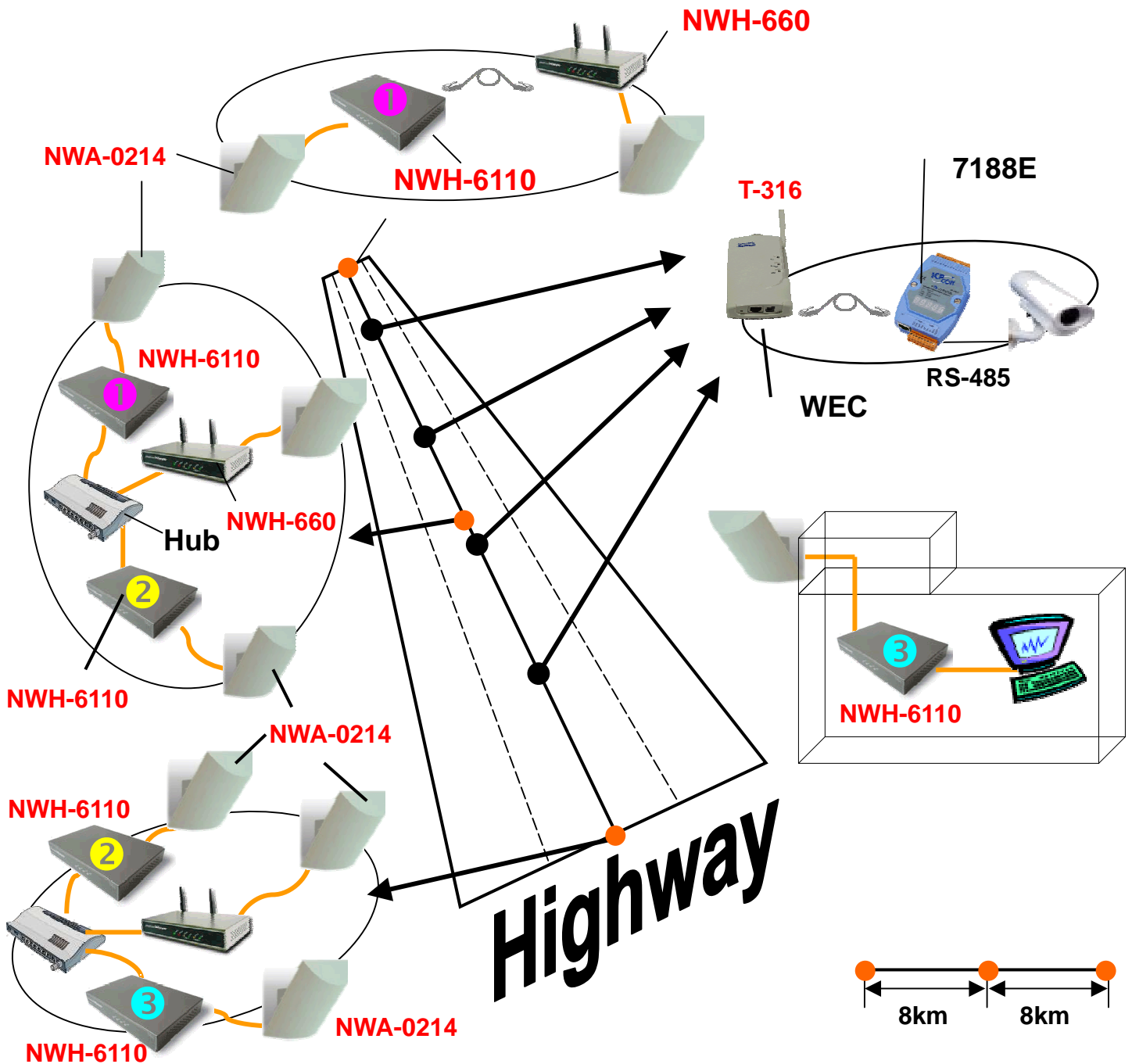
Building to Building application (outdoor)



In the above application, the maximum usage range is 2~3km without obstacles between the two buildings.

Application 4

Long distance Main-Line (outdoor)



Occasionally you will need to place your device at fixed intervals to establish a longer connection. In this situation, link 3 or 4 pair of Bridges to add to your transmission distance. At each interval, place a WEC to connect to your device. If you are within transmission distance, you will be able to access the device directly. If you are out of the transmission range, access the device by adding a Bridge along with the antenna.