

# VIETTEL COMPLEX

HO CHI MINH CITY, VIETNAM

## INTRODUCTION

The Viettel Complex is the largest office facility in District 10 and surrounding area in Ho Chi Minh City, Vietnam. Comfortably, thoughtfully designed offices provide tenants with a dynamic and creative work environment. Designed to the standard of a Class B office building, the complex has two towers, 28 floors with city views, and three basement parking zones with space for 2,550 bikes and 205 cars. [Viettel Group](#) is a Vietnamese multinational technology company headquartered in Hanoi with over 330 million subscribers in 13 countries across Asia, America, and Africa.

## PROJECT DETAILS

Using Reliable Controls hardware and software, Authorized Dealer BASS Solutions & Services implemented a building automation system in the Viettel Complex to control seven chiller systems integrated using BACnet MS/TP. A third-party lighting system and variable frequency drives are integrated using Modbus.

The Viettel Complex has a mixed mechanical system with each tower cooled by a dedicated variable-flow chilled water plant that supplies six primary air-handling units and more than 1,100 fan-coil units. Four generators and hundreds of power meters are integrated with the system. BASS Solutions & Services recognized that a fully optimized building control system with Reliable Controls SMART-Sensor devices was critical to achieving occupant comfort and good indoor-air quality.

Building managers use RC-Studio, RC-WebView, and RC-Toolkit software to program and control hundreds of MACH-Pro1, MACH-ProZone, MACH-ProWebSys, MACH-ProCom, and MACH-ProWebCom controllers expanded with MACH-ProPoint modules. RC-Archive provides a robust record of building performance.

BASS Solutions & Services is pleased with the outcome of this extensive building management system, made possible with simple, flexible, sustainable solutions from Reliable Controls.

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# Reliable<sup>®</sup> controls



### MARKET SEGMENT

Corporate

### PROJECT TYPE

New construction

### INSTALLATION TYPE

HVAC, lighting

### TOTAL AREA

112,000 m<sup>2</sup> (1,205,558 ft<sup>2</sup>)

### PROTOCOL

BACnet, Modbus

### EQUIPMENT INSTALLED

159 MACH-Pro1™ controllers  
17 MACH-ProCom™ controllers  
52 MACH-ProPoint™ Input expansion modules  
67 MACH-ProPoint™ Input/Output expansion modules  
14 MACH-ProPoint Output expansion modules  
79 MACH-ProSys™ controllers  
5 MACH-ProView™ LCD controllers  
15 MACH-ProZone™ 44-C controllers  
395 MACH-ProZone 88-C controllers  
2 MACH-ProWebCom™ controllers  
344 SMART-Sensor™ EPD devices  
2 SMART-Sensor EPD devices with CO<sub>2</sub> and humidity sensors  
761 SMART-Sensor™ LCD devices  
RC-Archive®, RC-Studio®, RC-Toolkit®,  
and RC-WebView® software

### INTEGRATED EQUIPMENT

ABB variable frequency drives

### TOTAL SYSTEM OBJECTS

11,000

### RELIABLE CONTROLS AUTHORIZED DEALER

**BASS**  
Solutions & Services

ASHRAE BACnet<sup>®</sup>