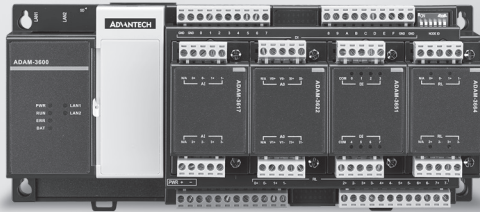


# ESRP-PCS-ADAM3600

## Wireless Intelligent Remote terminal unit

NEW



### Features

- High Performance CPU Cortex A8 600MHz
- Low Power DDR3L 256MB RAM
- Embedded Real-time Linux Kernel
- Domain Focused Onboard IO -8AI / 8DI / 4DO
- 4-Slot I/O Expansion
- High I/O Flexibility with 4-slot I/O Expansion
- Multiple wireless options for Zigbee/ Wi-Fi/ 3G/ 4G/ GPRS
- IEC61131-3&C Programming Language
- Modbus & DNP3 & IEC-60870-5-104
- Operation Temperature -40 ~ 70°C
- Internal Webpage for Online Monitoring
- Data Logger on SD card
- Support Azure IOT-Hub
- Support MQTT Client for cloud communication

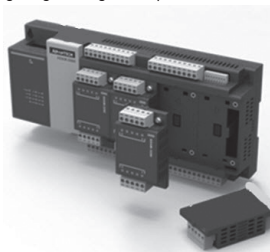
### Introduction

ADAM-3600-C2G is a cloud ready intelligent Remote Terminal Unit with multiple wireless function capability, multiple I/O selection, wide temperature range and supports flexible communication protocol for edge application of data collection, preprocessing and transmission to cloud. In these application environments, ADAM-3600 with WISE-PaaS/EdgeLink is a leading device in the field of environmental conservation and can satisfy the needs of environmental monitoring.

### Features

#### Wide Array of Flexible I/Os

Wide array of on-board I/O and flexible expansion I/O modules supporting different acquisition requirements giving it a high cost performance.



#### Wireless Communication & Protocols

The ADAM-3600 simultaneously supports two mini-PCIe cards (a half-size and a full-size) for Wi-Fi/ 3G/ GPRS/ Zigbee communication which is flexible for wiring in the field. Modbus RTU/TCP and DNP3 protocols integrate ADAM-3600 with more SCADA systems.



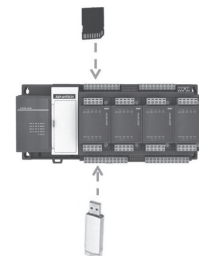
#### Wide Temperature Range

A -40 ~ 70°C operating temperature allows the ADAM-3600 to work in harsh environments and reduces maintenance costs for customers.



#### Remote Firmware Update

The ADAM-3600 can use a USB drive and an SD card to automatically update the firmware so there's no need to bring a computer and execute the configuration program in the field.



#### Intelligent Connectivity Diagnosis Manager (iCD Manager)

Remotely monitor serial and Ethernet port status and send alarm information during communication failures to help improve intelligent monitoring.



#### Node ID for Batch Configuration

Each ADAM-3600 has a node ID as its name to support batch configuration (max.64) with the configuration utility. When an alarm is displayed on the utility, customers can directly find the fault source with the node ID.



## Specifications

### Control System

- CPU: Cortex-A8 AM3352
- Memory: RAM 256MB  
Battery Backup RAM 32KB
- OS: RT-Linux V3.12
- Storage: MicroSD card / 1GB included for system  
SD card / 4GB included for data storage
- Programming: IEC-61131-3, Linux C
- Watchdog: Yes
- Real-time Clock: Yes
- Power Input: 10 ~ 30 V<sub>DC</sub>
- Power Consumption: 24V @ 5W

### Communication

- Protocol: Modbus/TCP, DNP3 L2, TCP/IP, DHCP, IEC104, MQTT
- Serial Port: 1 x RS232/485- DB9  
2 x RS485- Terminal Block
- Ethernet Port: 2 x RJ-45 10/100 Mbps
- USB Port: 1 x USB 2.0
- VGA Port: 1 x D-SUB15
- LED: System LEDs/ IO LEDs
- Isolation: 2000 V<sub>DC</sub>
- PLC driver support: Siemens/Mitsubishi/Omron/Allen-Bradley, Delta etc
- Cyber Security: SSL, SSH, white list

### Analog Input

- Channel: 8 differential
- Resolution: 16-bit
- Input Type:  $\pm 10V$ ,  $\pm 2.5V$ , 0 ~ 20mA, 4 ~ 20mA
- Isolation: 2,000 V<sub>DC</sub>

### Digital Input

- Channel: 8
- Input Type: Wet Contact
- Protection Voltage: +40 V<sub>DC</sub>
- Isolation: 2,000 V<sub>DC</sub>

### Digital Output

- Channel: 4
- Output Type: Open Collector (Sink)
- Rated Voltage: 8 ~ 30 V<sub>DC</sub>
- Isolation: 2,000 V<sub>DC</sub>

### Wireless Communication (Selectable)

- Interface: Mini-PCle (1 x Half-Size / 1 x Full-Size)
- Wireless Type: Zigbee- UART Signal  
Wi-Fi/3G/GPRS- USB Signal

### General

- Certification: CE/FCC
- Operating Temp.: -40 ~ 70°C
- Storage Temp.: -40 ~ 85°C
- Humidity: 5 ~ 95%(no-condensation)
- Mounting: DIN 35 rail/ Wall Mount

### I/O Expansion Module Selection Table

Unit: Channels

| Expansion Module | RTD | AI | T.C. | AO | DI | DO |
|------------------|-----|----|------|----|----|----|
| ADAM-3613        | 4   |    |      |    |    |    |
| ADAM-3617        |     | 4  |      |    |    |    |
| ADAM-3618        |     |    | 4    |    |    |    |
| ADAM-3624        |     |    |      | 4  |    |    |
| ADAM-3651        |     |    |      |    | 8  |    |
| ADAM-3656        |     |    |      |    |    | 8  |

## Ordering Information

- ESRP-PCS-ADAM3600: Wireless Intelligent Remote terminal unit w/ I/Os

## Optional Accessory

### 4G/3G Solution (SIM card is not included)

- EWM-C117FL04E: LTE/HSPA+/GPRS module, w/ SIM Slot,
- 1750006264: SMA(F) Cable, 15 cm
- 1750008424-01: 4G LTE 700 ~ 960 MHz, 1710 ~ 2700 MHz

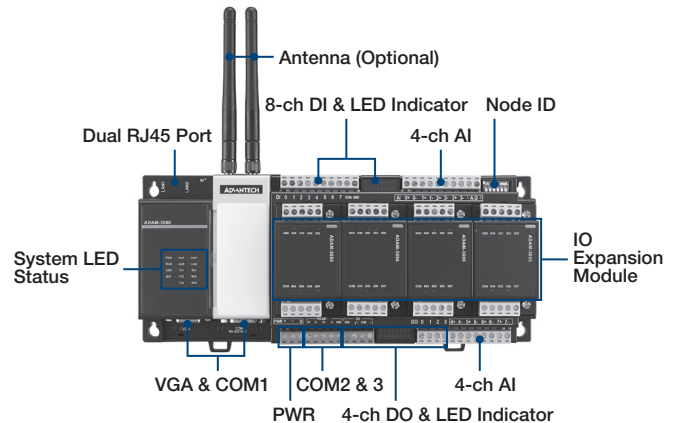
### WIFI Solution (recommended)

- 96PD-RYUW131: 2.4GHz Wi-Fi Full/Half Size Mini PCIe Card
- 9656EWMG00E: Half to full-size Mini PCIe bracket pack(optional)
- 1750006043: SMA(M) cable, 15 cm
- 1750000318: 2dBi antenna for testing, 11 cm

### GPS Solution

- EWM-G108H01E: GPS/GNSS Half-MiniPCle card
- 1750006264: SMA (F) Cable, 15cm
- 1750006432: Antenna 4.5 dBi, 500cm

## Layout



## Dimensions

Unit: mm

