

ADAM-3600-C2G

8AI / 8DI / 4DO / 4-Slot Expansion Wireless Intelligent RTU



CE FCC

Main Features

NEW

- TI Cortex A8 600MHz CPU
- DDR3L 256MB RAM
- RT-Linux OS
- Multiple Onboard IO- 8AI / 8DI / 4DO
- 4-Slot I/O Expansion
- Wireless Support with Mini-PCIe Interface
- Zigbee/ Wi-Fi/ 3G/ 4G/ GPRS
- IEC61131-3&C Programming Language
- Supports Modbus, DNP3, IEC870-5-101/103/104 and S7-Connect client protocols
- Supports PbsSoftLogic Control Software
- Operation Temperature -40~70°C

Introduction

The ADAM-3600-C is an intelligent Remote Terminal Unit with wireless function, multiple I/O selection, wide temperature range and support flexible communication protocol for oil, Gas and Water application. With the ADAM-3600 in your system, you can get more intelligent monitoring and management result. The ADAM-3600-C is powered by pbs SoftLogic Runtime kernel with Modbus, DNP3, IEC870-5-101/103/104 and S7-Connect client protocols.

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 protocol support that integrates the ADAM-3600 with more SCADA systems. The ADAM-3600 also supports IEC870-5-101/103/104 and S7-Connect client protocols.



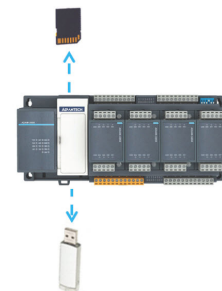
Wide Temperature Range

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



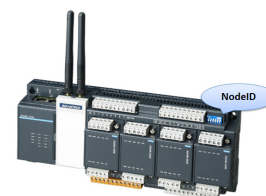
Intelligent Connectivity Diagnosis Manager (iCD Manager)

Remotely monitor the serial and Ethernet ports status and send the alarm information, during the communication failure, to improve the 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
- **SD** Standard SD/ 1GBMicro SD
- **Programming** IEC-61131-3/ C
- **Watchdog** Yes
- **Real-time Clock** Yes
- **Power Consumption** 24V @5W

Communication

- **Protocol** Modbus/ DNP3/ IEC870-5-101/103/104/ S7-Connect client
- **Serial Port** 1 x RS232/485- DB9
2 x RS485- Terminal Block
- **Ethernet Port** 2 x RJ-45 10/100Mbps
- **USB Port** 1 x USB 2.0
- **VGA Port** 1 x D-SUB15
- **LED** System LEDs/ IO LEDs

Analog Input

- **Channel** 8 differential
- **Resolution** 16-bit
- **Input Type** $\pm 10V$, $\pm 2.5V$, 0~20mA, 4~20mA
- **Isolation** 2,000 V_{DC}

Digital Input

- **Channel** 8
- **Input Type** Wet Contact Input (Sink)
- **Protection Voltage** $+40 V_{DC}$
- **Isolation** 2,000 V_{DC}

Digital Output

- **Channel** 4
- **Output Type** Open Collector (Sink)
- **Rated Voltage** 8~30 V_{DC}

I/O Expansion (Selectable)

- **Expansion** 4-Slots
- **Expansion Type** AI/T.C./AO/DI/DO/RO

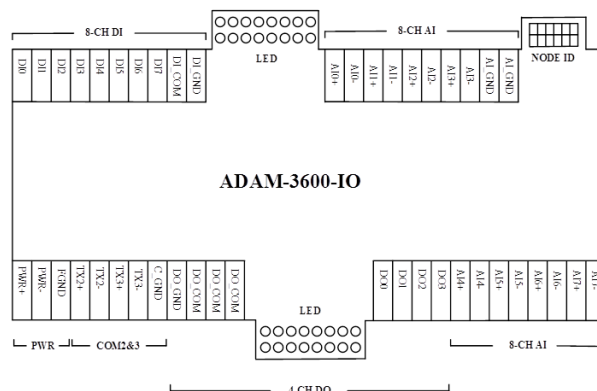
Wireless Communication(Selectable)

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

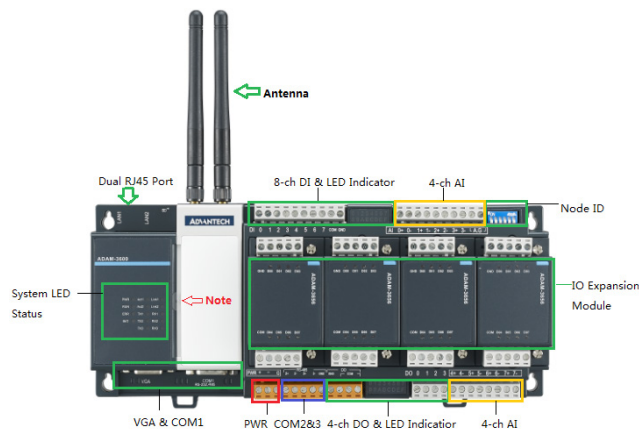
General

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

Pin Assignment



Layout



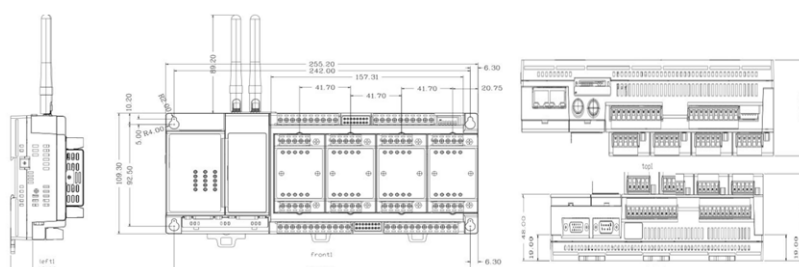
Ordering Information

- **ADAM-3600-C2G1AE** 8AI/8DI/4DO/4-Slot Expansion Wireless Intelligent RTU

I/O Expansion Module Selection Table

Expansion Module	AI	T.C.	AO	DI	DO	RO
ADAM-3617	4					
ADAM-3618		4				
ADAM-3622			2			
ADAM-3651				8		
ADAM-3656					8	
ADAM-3664						4

Dimensions



Unit: mm