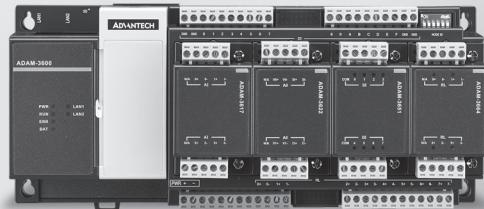


ADAM-3600-C2G

NEW



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

Features

- High Performance CPU Cortex A8 600MHz
- Low Power DDR3L 256MB RAM
- Embedded Real-time Linux Kernel
- Domain Focused Onboard I/O -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/ 4G/ Cellular
- 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

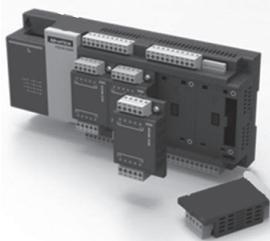
Introduction

ADAM-3600-C2G is an cloud ready intelligent Remote Terminal Unit with multiple wireless function capability, multiple I/O selection, wide temperature range and supports flexible communication protocol for oil, gas and water applications. In these application environments, ADAM-3600 is ideal for remote inhospitable regions with many devices that need to be managed remotely.

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.



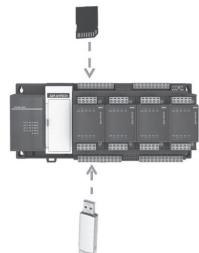
Wide Temperature Range

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
- OS Battery Backup RAM 32KB RT-Linux V3.12
- Storage MicroSD card / 1GB included for system SD card slot / Optional IEC-61131-3, Linux C
- Programming Yes
- Watchdog Yes
- Real-time Clock Yes
- Power Input 10 ~ 30 V_{DC}
- Power Consumption 24V @ 5W

Communication

- Protocol Modbus/TCP, DNP3 L2, TCP/IP, DHCP, IEC104, MQTT, SMTP, NTP
- Serial Port 1 x RS232/485- DB9 ADAM-3600-C2GL1A1E:2 x RS485-Terminal Block (data bit:5,6,7,8) ADAM-3600-C2GL1B1E:2 x RS485-Terminal Block (data bit:8)
- 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_{DC}
- 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 ±10V, ±2.5V, 0 ~ 20mA, 4 ~ 20mA
- Isolation 2,000 V_{DC}

Digital Input

- Channel 8
- Input Type Wet Contact
- 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}
- Isolation 2,000 V_{DC}

Wireless Communication (Selectable)

- Interface Mini-PCIe (1 x Half-Size / 1 x Full-Size)
- Wireless Type Zigbee- UART Signal
- Wi-Fi/Cellular/4G- USB Signal

General

- Certification CE/FCC (No RED certification)
- 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	Relay
ADAM-3613	4						
ADAM-3617			4				
ADAM-3618				4			
ADAM-3624					8		
ADAM-3651						8	
ADAM-3656							8
ADAM-3668							4

Ordering Information

- ADAM-3600-C2GL1A1E 8AI/8DI/4DO/4-Slot Expansion Wireless Intelligent RTU (Phase out)
- ADAM-3600-C2GL1B1E 8AI/8DI/4DO/4-Slot Expansion Wireless Intelligent RTU (New)

Optional Accessory

Cellular Solution (SIM card is not included)

- 96PD-EC25EFA LTE Cat 4 Module with GNSS
- 1750006264 SMA(F) Cable, 15 cm
- 1750005865 Dipole Antenna, 11 cm

WIFI Solution

- 96PD-RYUW131A1 WiFi 4 2.4GHz mPCIe with antenna and cable (SMA cable and antenna included)
- EWM-W180H01E 802.11ac/a/b/g/n 2T2R Wi-Fi + BT 5.0 half-size mPCIe module
- 1750008717-01 WiFi 2.4GHz+5GHz dipole antenna (-40 °C ~ + 65 °C) (Recommend usage qty: 2pcs)
- 1750006043 WiFi Coaxial Cable, 150 mm (Recommend usage qty: 2pcs)
- 9656EWMG00E Half-size miniPCIe to miniPCIe bracket set

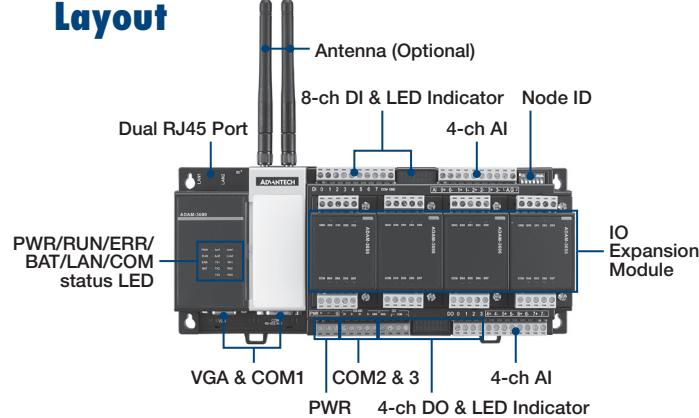
GPS Solution

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

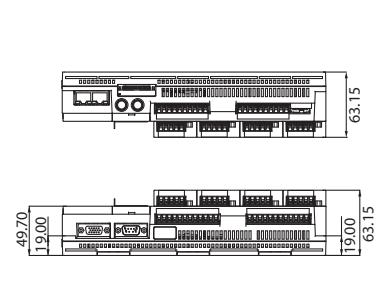
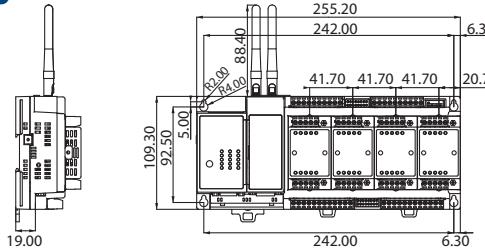
Storage Solution

- SQF-ISDS1-4G-82E SLC 4G, 1CH (-40 ~ 85°C)
- SQF-ISDS1-32G-82E SLC 32G, 1CH (-40 ~ 85°C)

Layout



Dimensions



Unit: mm