

UNO-P154

4-ch Fiber Smart LAN, 2-ch 10/100 Base-F LAN, IRIG Time Code Input

Packing List

Before installation, please make sure that you have:

- UNO-P154 plug in card
- Nameplate for integration
- Front and Rear brackets
- 11 x hex metal posts
- Driver CD

If anything is missing or damaged, contact your distributor or sales representative immediately.

Overview

For the application of data recording and analysis from a network, the UNO-P154 provides 4 smart LAN ports to collect high-density network packets that come with 32K byte FIFO so as to keep data integrity, and 2 standard 10/100Mbps fiber optic interfaces, which are used to respond to real-time data. IRIG time decoding provides more accurate time recording information, to facilitate data analysis.

Notes

For more information on this and other Advantech products, please visit our websites at:

<http://www.advantech.com>

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<http://www.advantech.com.tw/eservice>

This startup manual is for the UNO-P154

Part No: 2003015400

1st Edition

October 2011

Specifications

Smart LAN

▪ Channels	4
▪ Operation Rate	10/100Mbps
▪ Mode	SC Multi-Mode
▪ Optical Performance	1300nm
▪ Transmission Distance	2km
▪ FIFO Size	32K byte 8K Byte per channel
▪ Data Sampling Rate	10MByte/s(Max.) 20 MU (IEC-61850 standard)
▪ Data Transfer Mode	DMA
▪ DSP frequency	500MHz
▪ DSP Firmware Update	Online Update
▪ Data Bus	PCI-104 V2.0
▪ LED	Link/Act

Standard LAN

▪ Channels	2
▪ Operation Rate	10/100Mbps
▪ Mode	SC Multi-Mode
▪ Optical Performance	1300nm
▪ Transmission Distance	2Km
▪ Data Bus	PCI-104 V2.0
▪ LED	Link/Act

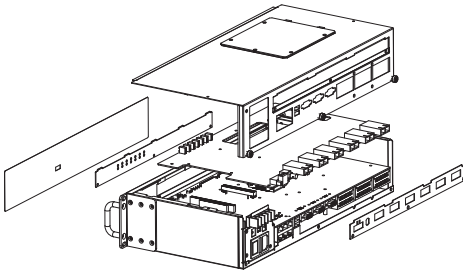
IRIG Time Code Input

▪ Channels	2 1 ST Multi-mode, 1 Isolated RS-485
▪ Input Signal	Demodulated IRIG-B Signal
▪ Transmission Distance	ST Multi-mode 2.7km RS485 1.2k
▪ Accuracy	0.1ms
▪ Message Syntax	YYYYQQQHHMMSS(year, day, hour, minute& second)
▪ Supported Formats	IRIG-BOOX according to IRIG STANDARD 200- 04,200-98
▪ Resolution of the time	1S
▪ LED	IRIG Data Input

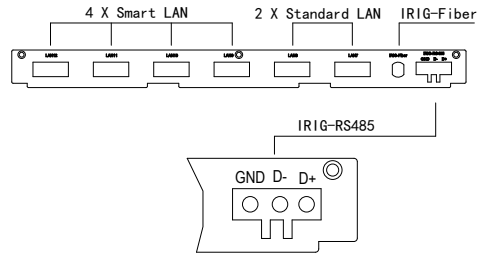
General

▪ Power Consumption	20W (Typical)
▪ Operating Temperature	-20 ~ 60° C (-4 ~ 140° F (refer to IEC 60068-2-1)
▪ Operating Humidity	5 ~ 85% RH non-condensing (refer to IEC 60068-2-3)

Diagram



Rear I/O

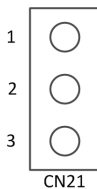


Installation

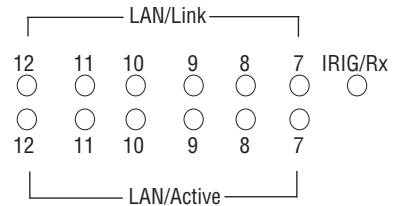
Follow these steps to integrate into UNO-4672:

1. Refer to Chapter 3 of the UNO-4672's user manual to remove the L-shaped cover.
2. Remove each pair of hex nuts of the 8 x COM port
3. Refer to the 'Setting IRIG RS-485 Terminal Resistor' section to set the configuration.
4. Refer to the screw hole of the UNO-P154 to unscrew the related screws on the UNO-4672 and secure the provided 11x hex metal posts in the same position.
5. Plug the UNO-P154 into the UNO-4672 and secure it using the screws you removed in step 4.
6. Refer to the above diagram, replace the front/rear bracket and nameplate to fit the UNO-P154's I/O and LEDs.
7. Replace and secure the L-shape cover, then replace the hex nuts you removed in step 2.
8. As for the software driver, please refer to the companion driver CD.

Setting IRIG RS-485 Terminal Resistor



LED Indicators



LED No.	COM Status	Status	Description
1	LAN/Link (LAN7~12)	Green	100Mbps network link
		Off	10Mbps network link or invalid network link
2	LAN/Active (LAN7~12)	Orange	Ethernet data being received/ transmitted
		Off	No Ethernet data being received/ transmitted
3	IRIG/Rx	Green	IRIG-RS485 or IRIG-TTL Input signal being received
		Off	No IRIG signal being received

Short	Description
1-2	Add 120 Ohm terminal resistor on Data+/ Data- of RS-485
2-3	Add 300 Ohm terminal resistor on Data+/ Data- of RS-485

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