



Fine Tooling

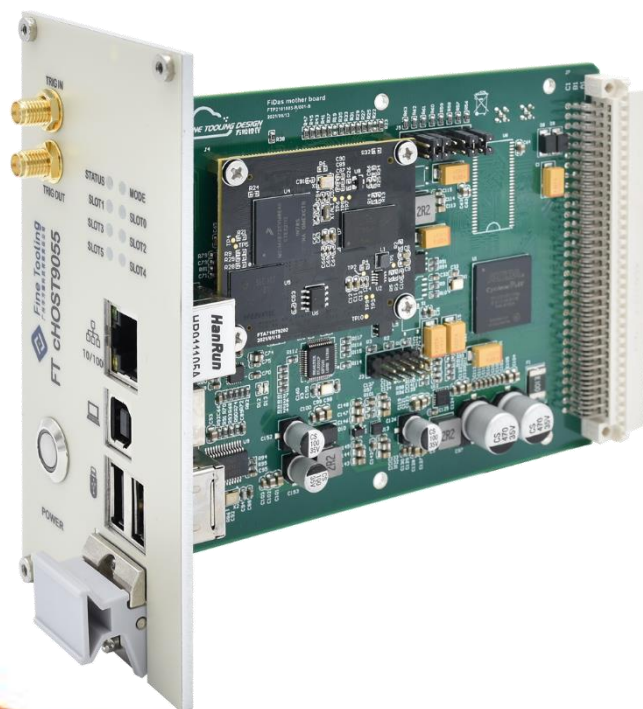
广州市方瞳科技有限责任公司

FIDAS FTCHOST90XX

Embedded Host With Linux OS

Based On FIDAS Family

- **RELIABLE**
- **REALTIME**
- **FLEXIBLE**



VERSION: ML210817A RELEASED DATE: 2021-08-17

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Overview:

FTcHOST90XX belongs to the cost-effective FIDAS hosts series. Have a variety of options on microcontroller, the built-in EMMC or external M2SSD. FTcHOST90XX includes Trigger IN and Trigger OUT pins, which can be used to synchronize multiple hosts conveniently. The FTcHOST90XX comes with Linux operating system and can communicate with computers through Ethernet and high-speed USB2.0 interface. It can be used as a real-time measurement and control system, and also as a data recorder.

System support: windows XP/10 Linux

Soft compatibility: LabVIEW Visual Studio FT Studio

Product features:

- When configured as a recorder, upload and local recording can be set to be simultaneously to avoid any data loss
- Are also available in a variety of storage capacities and processor specifications
- The built-in eMMC ranges from 8GBytes to 32GBytes, and data can be recorded without the user inserting an external storage
- The higher configuration supports additional M2 SSD for larger storage capacity
- FTStudio, LabVIEW, Visual Studio and other C languages are supported to development user application with host computer
- Provide host customization services
- Free testing tool (HWSUIT For FIDAS)

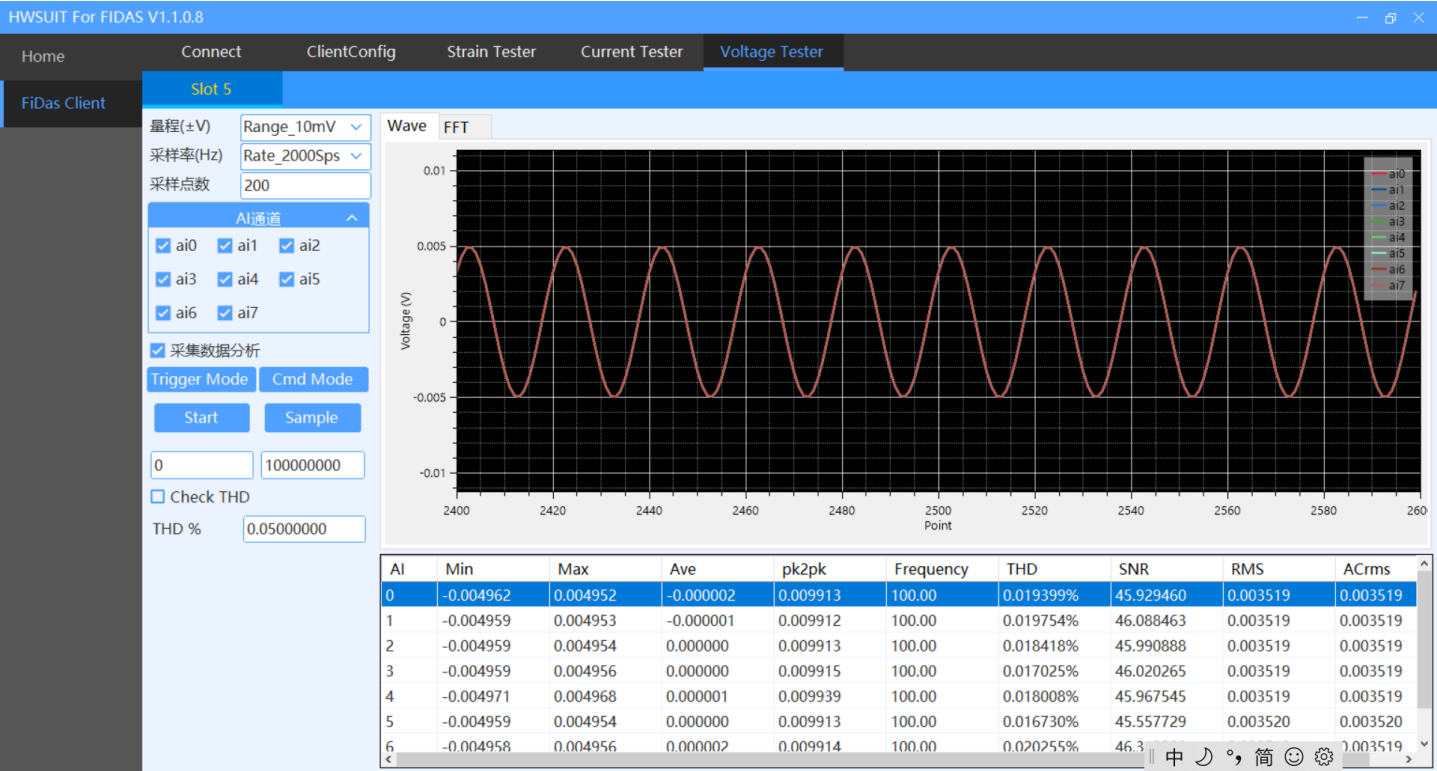
Specification

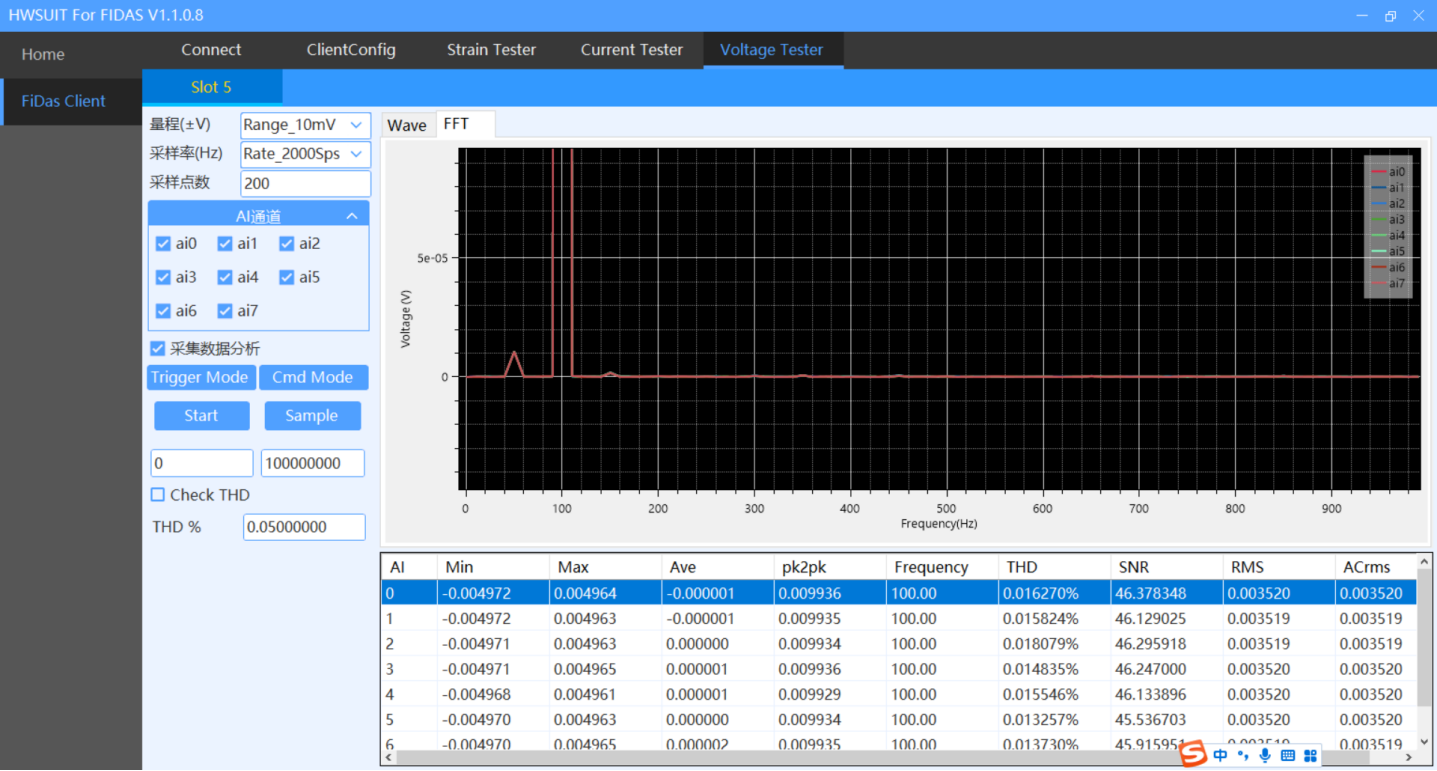
Parameters	FTcHOST9055	FTcHOST9056	FTcHOST9057	FTcHOST9058	FTcHOST9059
Processor	Single Core	Single Core	Quad Core	Quad Core	Quad Core
RAM	4Gb	4Gb	16Gb	16Gb	16Gb
System Storage	8GBytes System: 3G Data: 5G	8GBytes System: 3G Data: 5G	32GBytes System: 6G Data: 26G	32GBytes System: 6G Data: 26G	32GBytes System: 6G Data: 26G
M2 SSD Support	N/A	N/A	YES	YES	YES

Evaluation For Data Record Length For 5GB Data Storage Space					
Sample Rate	1 CH Data	8 CH Data	16 CH Data	32 CH Data	64 CH Data
2Ksps (0.5ms)	7day 9hour and 24minute	23hour 18minute	11hour 39minute	5hour 49minute	2hour 54minute
1Ksps (1ms)	3day 21hour 12minute	11hour 39minute	5hour 49minute	2hour 54minute	1hour 27minute
0.1Ksps (10ms)	38day 19hour 4minute	4day 20hour 30minute	2day 10hour 15minute	1day 5hour 7minute	14hour 33minute
0.01Ksps (100ms)	388day 8hour 40minute	48day 13hour 5minute	24day 6hour 32minute	12day 3hour 16minute	6day 1hour 38minute

Evaluation For Data Record Length For 26GB Data Storage Space					
Sample Rate	1 CH Data	8 CH Data	16 CH Data	32 CH Data	64 CH Data
2Ksps (0.5ms)	40day9hour 21minute	5day1 hour 10minute	2day 12hour 35minute	1day 6hour 17minute	15hour 8minute
1Ksps (1ms)	20day40minute	2day 6hour 35minute	1day 6hour 17minute	15hour 8minute	7hour 34minute
0.1Ksps (10ms)	201day22hour 45minute	25day 5hour 50minute	12day 14hour 55minute	6day 7hour 27minute	3day3hour 43minute
0.01Ksps (100ms)	2019day	252day 10hour 26minute	126day 5hour 13minute	63day2hour 36minute	31day 13hour 18minute

HWSuit can be used to control FIDAS. It is convenient for data collection and view in graphical. The following is a case of using the HWSuit suite for 8 channels voltage recording on a of 10mVpkpk 100HZ signals





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