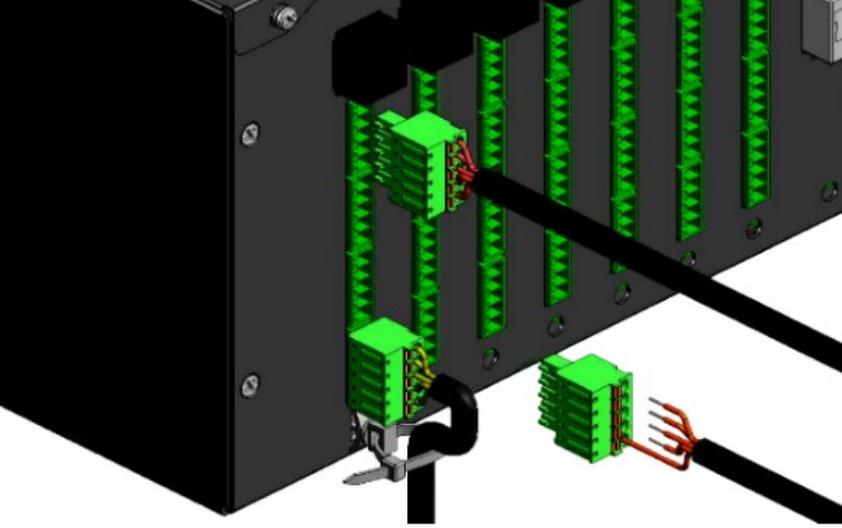# FCB 2100
Forecourt Controller

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Innovision Technology Corp., Ltd.

FCB2100 Forecourt Control Box is the bridge for forecourt devices communication; could communicate with POS and Back office server to get the data from forecourt devices over TCP/IP easily.

FCB2100 is RISC base embedded computer that provides a stable and reliable operation. 32bits ARM 920 CPU with 32MB flash memory and 64MB SDRAM, built in Embedded Linux operating system to offer the powerful operating ability; furthermore, FCB2100 also has USB interface, coordination of USB flash drive can support data redundant.

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Built-in Ethernet, current loop, RS232, RS485 and USB interfaces, could connect almost worldwide brand dispenser and forecourt devices such as OPT, ATG, price sign, weighbridge , RFID reader and Oil gas reclaim system easily; to provides a complete forecourt control solution.

Linking FCB2100 and outdoor payment terminal (DIT-Box) through TCP/IP could construct fully service station retail solution easily.

The connectors use Euro Type screwless Terminal Blocks, it is easy for installation and maintenance.

FCB2100 also supports RMS, could remote to monitor, change price even update software to save the manpower.
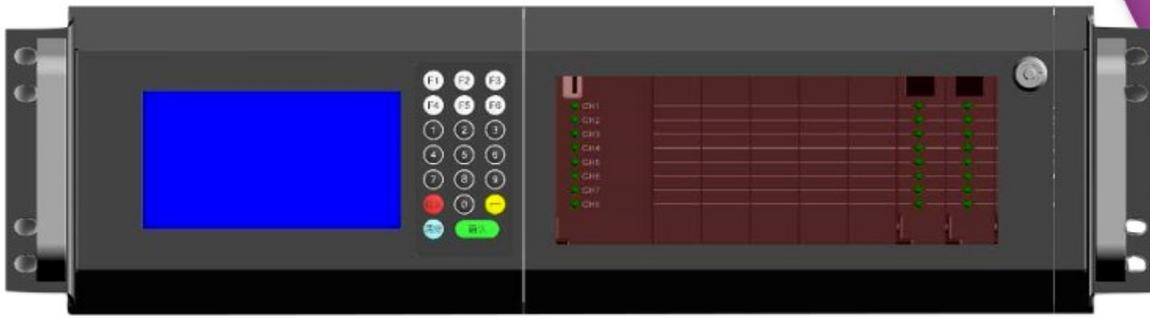
Precise control dispenser

- ❑ Real time monitors and controls
- ❑ Lock / Unlock single unit or whole station
- ❑ Regular and real-time change price
- ❑ Maximum supports 48 fueling position
- ❑ Records each transaction precisely
- ❑ Supports self-dispensing

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Easy setup parameter of dispenser

- Service mode and self-dispensing mode switch
- Setup dispenser ID, nozzle ID, nozzle number, fuels ID
- Setup decimal point figure of volume and amount

Comprehensive forecourt data management

- Real-time data exchange between dispenser and POS / BOS
- Completed communication protocol
- Real-time gets transaction data, dispenser ID, nozzle ID, fuel ID & unit price
- Records up to 10,000 transaction data by each nozzle.

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Special handle

- All adapted cards support hot-swap, even mainboard card
- In service mode, forecourt card can operate 16 transactions without main module
- Supports data redundant, auto-execution when mainboard card inserted
- Data back-up
- Take over forecourt transaction control if BOS /POS damaged

Strict security controls

- Monitoring all connected devices in real-time
- Parameter table security
- Transaction data encryption
- Access level management

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Specification

Power supply	200W Mini ATX power
Power input	AC110-220V 1A 50/60Hz
Power consumption	Maximum 500mA @110V, 300mA @220V
Display	STN 240*128 dots matrix LCD with backlight
Keypad	20 keys membrane keypad
CPU	ARM 920 32bits
Flash memory	32MB
SDRAM	64MB
Operating system	Embedded Linux
I/O ports (except FCC)	RS232*1, RS485*1 & USB*1
LAN	10/100 Mbps Ethernet*2
FCC	Standard with 2pcs and up to 6pcs
SAM card	4 SAM card, optional
RTC	yes

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Forecourt control card

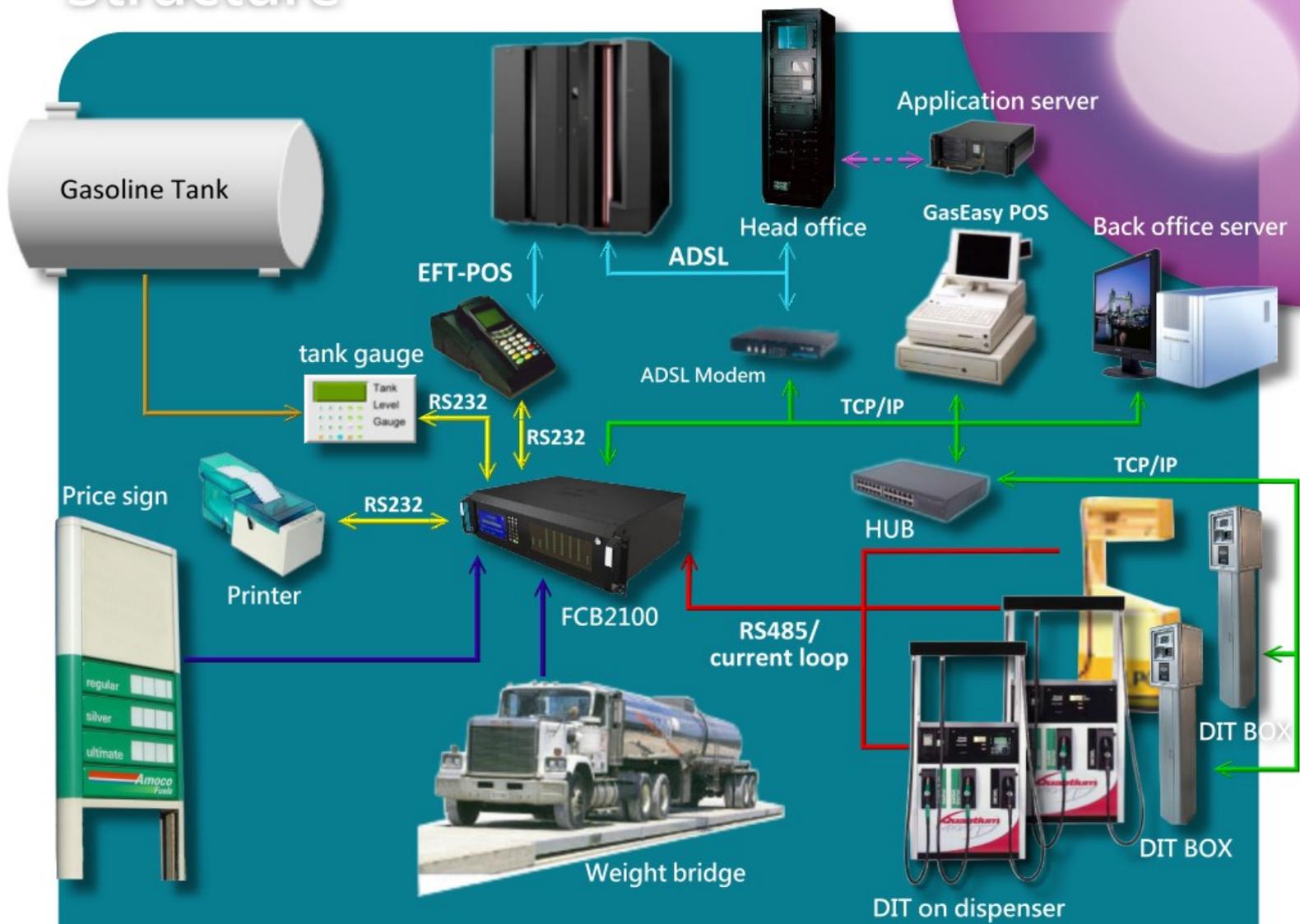|	
Processor	W78E58B 8bits MCU
ROM	32KB embedded in MPU
SRAM	32KB
Backup Battery	CR2032 Lithium Battery
I/O ports	RS232*2, RS422/485*4 or current loop*4
Console port	RS232 connect to the mainboard
Hot-Swap	Support
Data redundant	Keep the transaction data when main board not exist, and auto uploads when main board recover.
LED indicate	8 LED for current loop dispenser 1, dispenser 2, dispenser 3, dispenser 4, RS485, ACB host, AUX1 & AUX2.
Support dispensers list	

Gasoline Dispenser： Tokheim, Tokheim HengShan, Dresser Wayne, Tatsuno, Gilbarco, NP, Schlumberger, Bennett, Sanki, Rong Xing , Xin Yang, Chang Kong, Hao Sheng, Jia Li Jia, Zhong Yi, Hong Yang and Censtar

LPG Dispenser： Batchen, Gilbarco, NP, Tatsuno, Kraus, Hope

Tank Gauge： OPW, Tatsuno, Franklin, Veeder Root

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Gasoline Tank

Application server

Head office

GasEasy POS

Back office server

EFT-POS

ADSL

tank gauge

Tank Level Gauge

RS232

ADSL Modem

RS232

TCP/IP

TCP/IP

Price sign

RS232

HUB

FCB2100

RS485/
current loop

regular

silver

ultimate

Amoco Fuels

Printer

DIT BOX

Weight bridge

DIT on dispenser

DIT BOX

Customers

CRC

ZRCC

eco

台糖

Caltima 加得滿

OILGROUP

TD

FUELPAY

TOKHEIM QUALITY

Wayne

Nuovo Pignone

LARSEN & TOUBRO

GE Oil & Gas

ProJET

ExxonMobil

Schlumberger

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