

ST89 16 MULTI-FUNCTION DISPLAY SYSTEMS

The most flexible, highest specification, lowest priced Dash-Logger available!

The ST8916 multi-function display system combines the proven benefits of integrated STACK Display systems with the latest STACK Multi-Function Technology.

A clear to read display system with fast, accurate analog dial face and the clear, back-lit LCD display forms the base system; the hardware capabilities are already built-in awaiting PIN code activation.

Maximum power, simple to use!



Sequential Shiftlight
Separate module gives the optimum placement regardless of the display system.

Clear Display
The Backlit LCD uses the latest Transflective technology for guaranteed visibility in both bright sunlight and complete darkness.

Easy to use
Stack display systems combine both an analogue tachometer dial with an integrated digital LCD display. The Stack stepper motor technology provides extremely accurate dial movement.



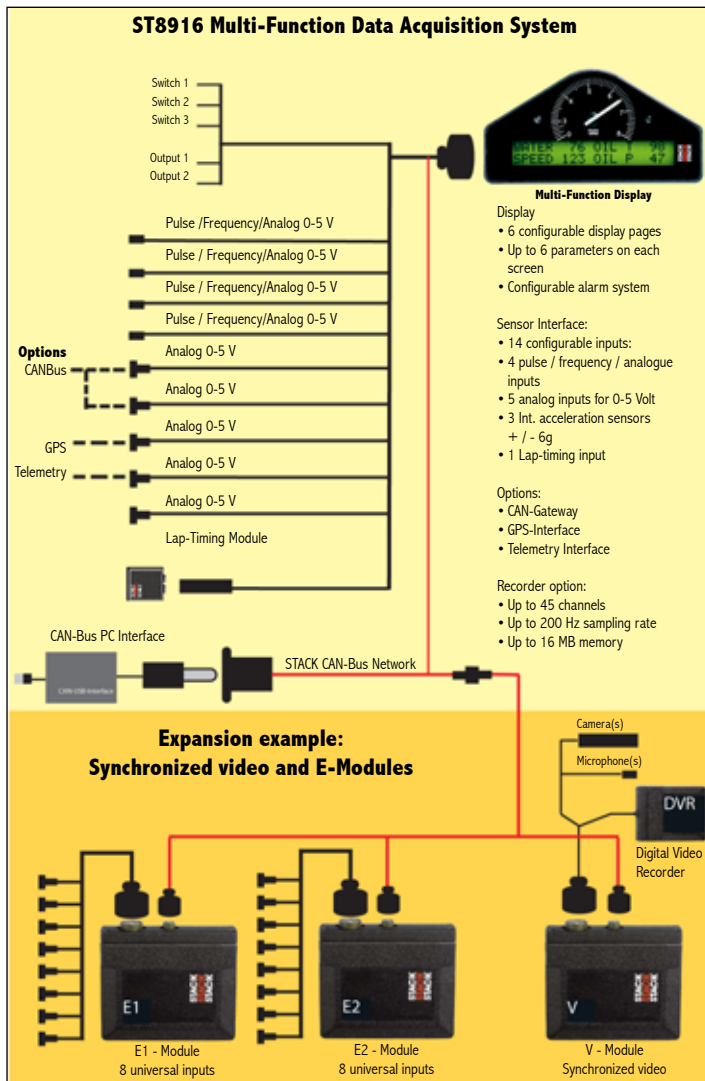
Configurable Alarm System
Fully configurable alarms alert driver by display messages and/or warning LEDs

Additional display features
Lap time, Lap number and the best time.

Configurable LCD Display
Choose 2, 4 or 6 parameters per page display

The "performance" Expansion includes Predictive lap time advance calculation. - see below...

Superior build quality
For all types of racing, Stack Dash Display systems provide unrivalled display clarity and performance.



The Stack Predictive Lap Time System provides the driver with a constantly updated, highly accurate prediction of the next lap time!



- Multi-function display function activated by PIN number
- Fully configurable LCD
- Fully configurable alarm system
- 14 standard inputs
- Integrated acceleration sensors
- Integrated Data Recording option
- Integrated CAN-Interface option
- Integrated GPS-Interface option
- Integrated Telemetry-Interface option
- Easy configuration via "drag & drop"
- Integrated switches and alarm lights
- Sequential Shift-light (optional)
- Expandable up to 45 inputs
- Complete system "ready out of the box" including wiring harness, lap time receiver, speed sensor, USB interface and DataPro software.

MFD

Multi-Function Displays

STACK STACK STACK

www.stackltd.com
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FEATURES & SPECIFICATIONS ST8916S MFD Multi-Function Display-Logger**SENSOR INPUTS**

Total no of standard input channels	14
Maximum no of input channels supported	45
Pulse (<3kHz) or 0-5 Volt analogue (10 bit) or thermocouple (using DSP interface)	4 (1 x wheel speed sensor supplied as standard)
0-5 Volt analogue (10 bit resolution)	5
Internal accelerometers (x-y-z)	3 Axis +/- 6g (Lateral/Longitudinal/Vertical)
Lap timing input	✓ (Includes ST543 Infra-red receiver)
Battery Voltage input channel	✓
Sensor harness with 19 pin MIL-STD connector	✓
Control switch inputs & outputs	3 & 2
Starter sensor pack (2 x pressure, 2 x temperature, all solid-state)	Option 1
CAN interface, e.g. ECU (1 stream, 40 channels) (Up to 3 CAN interface max)	Option 2
GPS interface (1 stream, 16 channels)	Option 3
Telemetry interface (supports radio modems or GSM cellular modems)	Option 4

DISPLAY FEATURES

Analogue tachometer (0-8000, 0-3-8000, 0-3-10500, 0-4-10000, 0-6-13000)	Specify dialface range at time of order
Inverted analogue tachometer (0-3-8000, 0-4-10000, 0-6-13000)	Specify dialface range at time of order
Multi-parameter LCD display	✓
Backlighting	✓
Lap time readout	✓
Peak value tell-tales	✓
Shift light internal	✓
Configurable display layout	✓
Configurable alarms on LCD Display and/or internal/external warning lamps	✓
Preconfigured display setup library	✓
Shift light external (single stage)	Option 5
Shift light external (sequential 5-stage)	Option 6
Predictive Lap Time and Performance Meter Displays	Option 7
Brake Bias Display (requires 2 x brake pressure sensors on network)	Option 7

DATA RECORDING OPTIONS

	CLUBMAN	SEMI-PRO	PRO
Number of recording channels	20	30	45
Maximum Sample Rate (Hz)	200	200	200
Individual sample rate on each channel	✓	✓	✓
Total Recorder samples per second	4000	4000	4000
No of channels @ max. sampling rate	20	20	20
Standard memory size (MB)	32MB	32MB	32MB
Order information	Option 8	Option 9	Option 10

VIDEO INTERFACE OPTIONS

Synchronized Video Support	Options 15 & 16
Synchronized Video Compare	Options 15, 16 and 17
Video Data Overlay Support	Options 15 & 18
Performance Meter and Predictive Lap Time Displays on Video Overlay	Options 15, 18 & 14
Max No. of Video Overlay Display channels	20
Configurable Alarms on Video Data Overlay	Options 15 & 18
Peak Value Recall on Video Data Overlay	Options 15 & 18
Auto Camcorder Control (LAN-C)	Option 15

SENSOR INPUT EXPANSION OPTIONS

Additional 8 Universal configurable sensor inputs (Expansion 'E' modules)	Options 19 and/or 20
2nd or 3rd CAN ECU Interface	Option 21
Network Expansion Harness (required for more than one expansion module)	Option 22

SYSTEM CONFIGURATION & DATA DOWNLOAD CAPABILITY

System Configuration by direct connection to PC USB Port	✓
Data Download by direct connection to PC USB Port	✓

ANALYSIS SOFTWARE

DataPro & Designer configuration SW V4 (MS Windows XP compatible)	✓
DataPro & Designer configuration SW V5 (MS Windows XP & Vista compatible)	Option 11
Rainbow Maps	Option 12
Maths Channels	Option 13
Custom Sensor Manager	Option 14
Logbook - User-configurable with full search functions	Option 11

ORDERING OPTIONS**ST8916S System**

(includes DSR-2 module, sensor & network harnesses, ST543 infra-red lap-time receiver, USB download cable, ST670 wheel speed sensor, DataPro software, user manual) **Call**

Option 1 Starter sensor pack	Call
Option 2 ST8996 CAN ECU Interface Option - [requires 2 x 0-5 Volt inputs]	Call
Option 3 GPS interface (PIN) - [requires 1 x 0-5 Volt input]	Call
Option 4 Telemetry interface (PIN) - [requires 1 x 0-5 Volt input]	Call
Option 5 ST536/ST537/ST538 Single stage shift light (White/Red/Amber)	Call
Option 6 ST539 5-stage shift light	Call
Option 7 ST8999-PIN Performance Meter, PLT, and Brake Bias Display (PIN)	Call
Option 8 ST8970-PIN Clubman recorder (PIN)	Call
Option 9 ST8971-PIN Semi-Pro recorder (PIN)	Call
Option 10 ST8972-PIN Pro recorder (PIN)	Call
Option 11 DataPro V5 software	Call
Option 12 ST8198 Rainbow Maps (PIN)	Call
Option 13 ST8199 Math Channel Calculator (PIN)	Call
Option 14 ST8183 Custom Sensor Manager (PIN)	Call
Option 15 ST8961 VS module (includes video and network harness)	Call
Option 16 ST8960-PIN Enable Synchronized-Video-Logging	Call
Option 17 ST8968-PIN Enable Synchronized-Video Compare	Call
Option 18 ST8969-PIN Enable Data Overlay on video image	Call
Option 19 ST8891 8 Universal Input 'E1' module (includes sensor harness)	Call
Option 20 ST8892 8 Universal Input 'E2' module (includes sensor harness)	Call
Option 21 ST833-2 'G2' CAN Gateway Module & CAN harness	Call
Option 22 ST889 Network Expansion Harness (for 2+ expansion modules)	Call

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