



# WFR EPL-110/EPL-111 EMBEDDED PC LOGGER

WFR-MCS

The EPL-110 and EPL-111 Embedded PC Loggers are local data acquisition units for transport applications designed to provide data capture from USB devices and video cameras.

The units are based around a 1.33GHz Intel Atom processor running the Microsoft Embedded XP operating system. Applications for on board data processing may be developed using the McLaren Electronics GDE products run under the vTAG execution environment. vTAG provides functionality for data processing and data acquisition for subsequent upload to ATLAS.



## FEATURES

### Electrical

- Supply Voltage +28 to +40VDC
- Reverse polarity input protection is provided
- Supply input current 1.3A @36V

### Communications

- 1 Ethernet 10/100Mbps
- 1 4.9GHz WiFi / 802.11
- 1 5.8GHz or 2.4GHz WiFi / 802.11
- 1 CAN 2.0B up to 1Mbps
- 1 RS232 4 USB2.0

### Inputs

- 1 general purpose 0 – 5V analogue input
- 4 analogue video inputs

### Other features

- Tri-axis accelerometer (+/-4g range)
- GPS module
- Video server module which converts analogue (composite) video to a MPEG-4 / Motion JPEG digital video stream for transfer / streaming over Ethernet
- VGA for direct connection to a display screen
- Intel Atom series microprocessor operating at 1.33GHz
- 1GB DDR2 RAM
- 2GB Flash memory for Windows XPE and program storage
- 2GB Flash memory for data acquisition storage

### Application

Data logging applications requiring data capture from USB devices and video cameras

### Connection Definition

- 4 USB 2.0 (Type A socket)
- 1 CAN 2.0B (9-way D-Sub socket)
- 1 RS232 (9-way D-Sub plug)
- 1 Ethernet (RJ45)
- VGA Monitor (15-way high-density D-Sub socket)
- 4 Analogue video (BNC)
- 4 WiFi Antenna (SMA)
- 1 GPS antenna (SMA)
- 1 Analogue input (LEMO 3 way F-series size 0F socket)
- 1 Power supply (LEMO 2 way F-series size 0F plug)

### Environmental

- Dust seal rated to IP50 (IEC 60529)
- Operating temperature 0 to +50°C
- If necessary cooling should be applied to ensure temperature remains within these limits
- Storage temperature -25 to +85°C
- Vibration 10 to 2000Hz, all axes, 24hrs

### Electro Magnetic Compatibility

Certification to meet the requirements of FCC part 15 pending

### Mechanical

- Aluminium case, painted silver
- Weight 4kg

